THOMSON

TV

PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO

THOMSON
27LB120S4/U
Chassis LCD12B

MODULES

MAIN	**MAIN**	**35884510**
POWE	**SMPS**	**35884740**
AUDI	**AUDIO**	**35884490**
IF	**TMM FE6234 TUNER**	**35885050**
IR	**IR**	**35770430**
KB	**CONTROL**	**35765250**
VIDE	**VIDEO/CONNECTOR**	**35884530**

EQUIPMENT/PRESENTATION
EQUIPEMENT/PRESENTATION
AUSSTATTUNG/GEHAEUSE
PARTI VARIE
EQUIPO/PRESENTACION

DISPLAY LCD 27 V270W1/L04 CMO **35770380**
ECRAN LCD 27 V270W1/L04 CMO
LCD-ANZEIGE 27 V270W1/L04 CMO
VISUALIZZATORE LCD 27 V270W1/L04 CMO
VISUALIZADOR LCD 27 V270W1/L04 CMO

RCT311TAM1 REMOTE CONTROL 21282900
RCT311TAM1 TELECOMMANDE
RCT311TAM1 FFRNBEDIENUNG
RCT311TAM1 TELECOMANDO
RCT311TAM1 TELEMANDO

FRONT CABINET ASSY 50088690
FACADE EQUIPEE
FRONTPLATTE KPL
MOBILE FRONTALE CPL
MUEBLE FRONTAL CPL

REAR PANEL 25811560
DOS
RUECKWAND
PANNELLO POSTERIORE
TAPA POSTERIOR

BASE PLATE OF THE FOOT 25739220
EMBASE DU PIED
FUSS-BASISPLATTE
BASE DI APPOGGIO DEL PIEDE
EMBASE DEL PIE

STAND FOOT 25739230
MONTANT DU PIED
STANDFUSS
PIEDE VERTICALE
PIE VERTICAL

LID OF FOOT 25739240
COUVERCLE DU PIED
KAPPE DES FUSSES
COPERCHIO DEL PIEDE
TAPA DEL PIE

SPEAKER KIT 25731340
ENS. HAUT PARLEUR
ZUSAMMEN LAUTSPRECHER
INSIEME ALTOPARLANTE
CONJUNTO ALTAVOZ

FOLDING BOX ACCESSORIES 35741730
EMBALLAGE CARTON ACCESSOIRES
KARTON ZUBEHOER
IMBALLAGGIO CARTONE ACCESSORI
EMBALAJE CARTON ACCESORIOS

POWER SUPPLY LEAD ⚠ 35068730
CORDON D'ALIMENTATION
NETZKABEL
CAVO DI ALIMENTAZIONE
CABLE DE ALIMENTACION

POWER SUPPLY LEAD UK ⚠ 10722790
CORDON D'ALIMENTATION UK
NETZKABEL UK
CAVO DI ALIMENTAZIONE UK
CABLE DE ALIMENTACION UK

RF CABLE 35750400
CABLE RF
RF KABEL
CAVO RF
CABLE RF

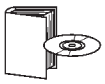
CARTON BOX TOP 35770750
EMBALLAGE CARTON SUPERIRUR
VERPACKUNG VON OBEN
IMBALLAGGIO DI SOPRA
EMBALAJE DE ARRIBA

FOLDING BOX BOTTOM 35770760
EMBALLAGE CARTON INFERIEUR
VERPACKUNG VON UNTEN
IMBALLAGGIO DI SOTTO
EMBALAJE DE ABAJO

FITTING LEFT 35770780
CALE GAUCHE
POLSTER LINKS
DISTANZIATORE SINISTRA
CALZO IZQUIERDA

FITTING RIGHT 35770790
CALE DROITE
POLSTER RECHTS
DISTANZIATORE DESTRA
CALZO DERECHA

FITTING BOTTOM 35770800
CALE INFERIEUR
POLSTER UNTERST
DISTANZIATORE INFERIORE
CALZO INFERIOR



27LB120S4 PARTS LIST 35885070
27LB120S4 LISTE DE PIECES DETACHEES
27LB120S4 ERSATZTEILLISTE
27LB120S4 LISTA PARTI DI RICAMBIO
27LB120S4 LISTA DE PIEZAS DE REPUESTO

27LB120S4/U-27LCDB03B UM GB,F,D,I,E 35834310
27LB120S4/U-27LCDB03B NU GB,F,D,I,E
27LB120S4/U-27LCDB03B BA GB,F,D,I,E
27LB120S4/U-27LCDB03B IU GB,F,D,I,E
27LB120S4/U-27LCDB03B IU GB,F,D,I,E

27/30LCDB INSTAL GUIDE WALL MOUNT 35785470
27/30LCDB NOTICE INSTAL ACCROCHE MURAL
27/30LCDB INST. SANLEITUNG WANDHALTERUNG
27/30LCDB ISTRUZ INSTAL SUPPORTO MURALE
27/30LCDB INSTRUC INSTAL SOPORTE MURAL

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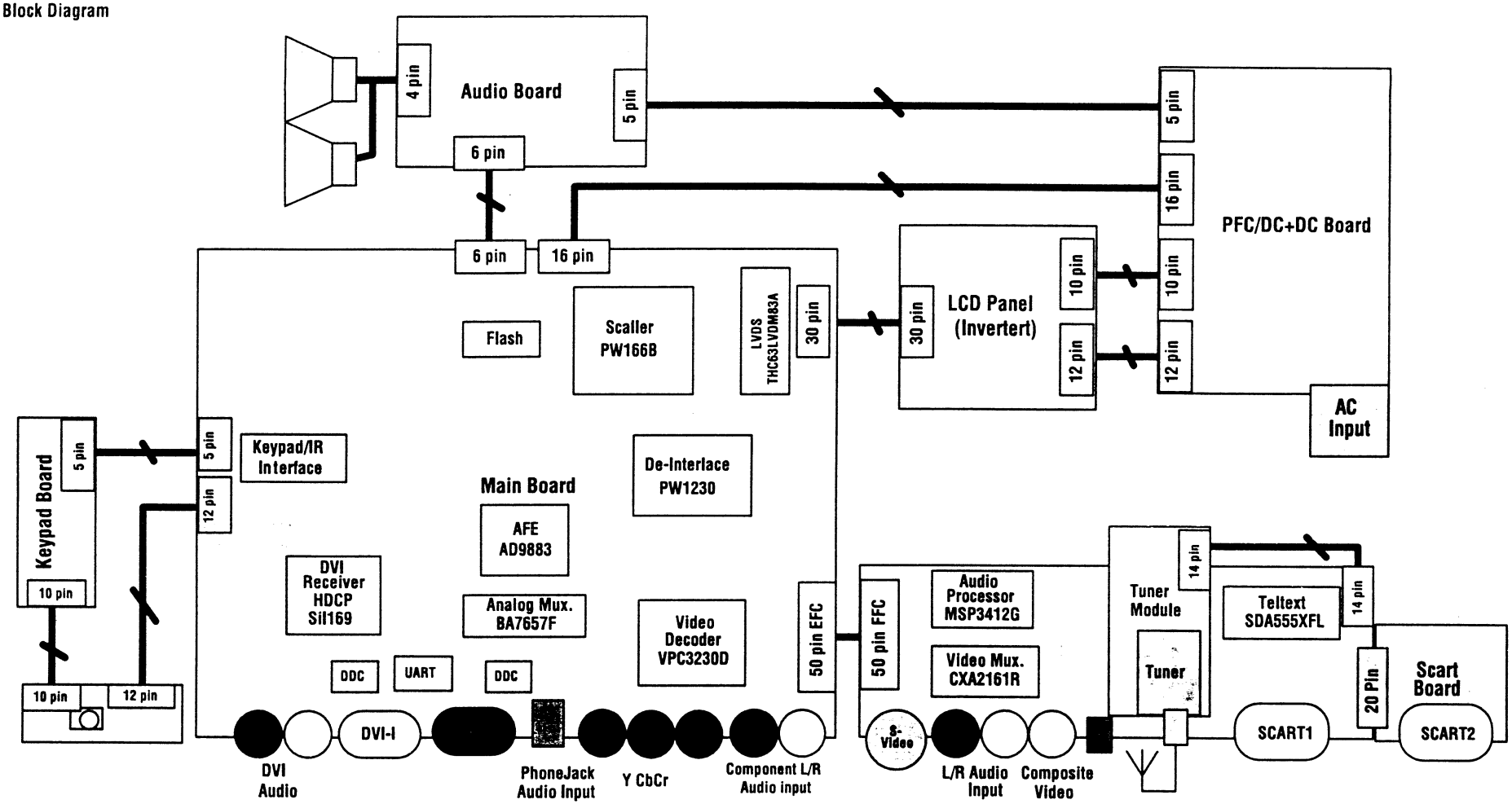
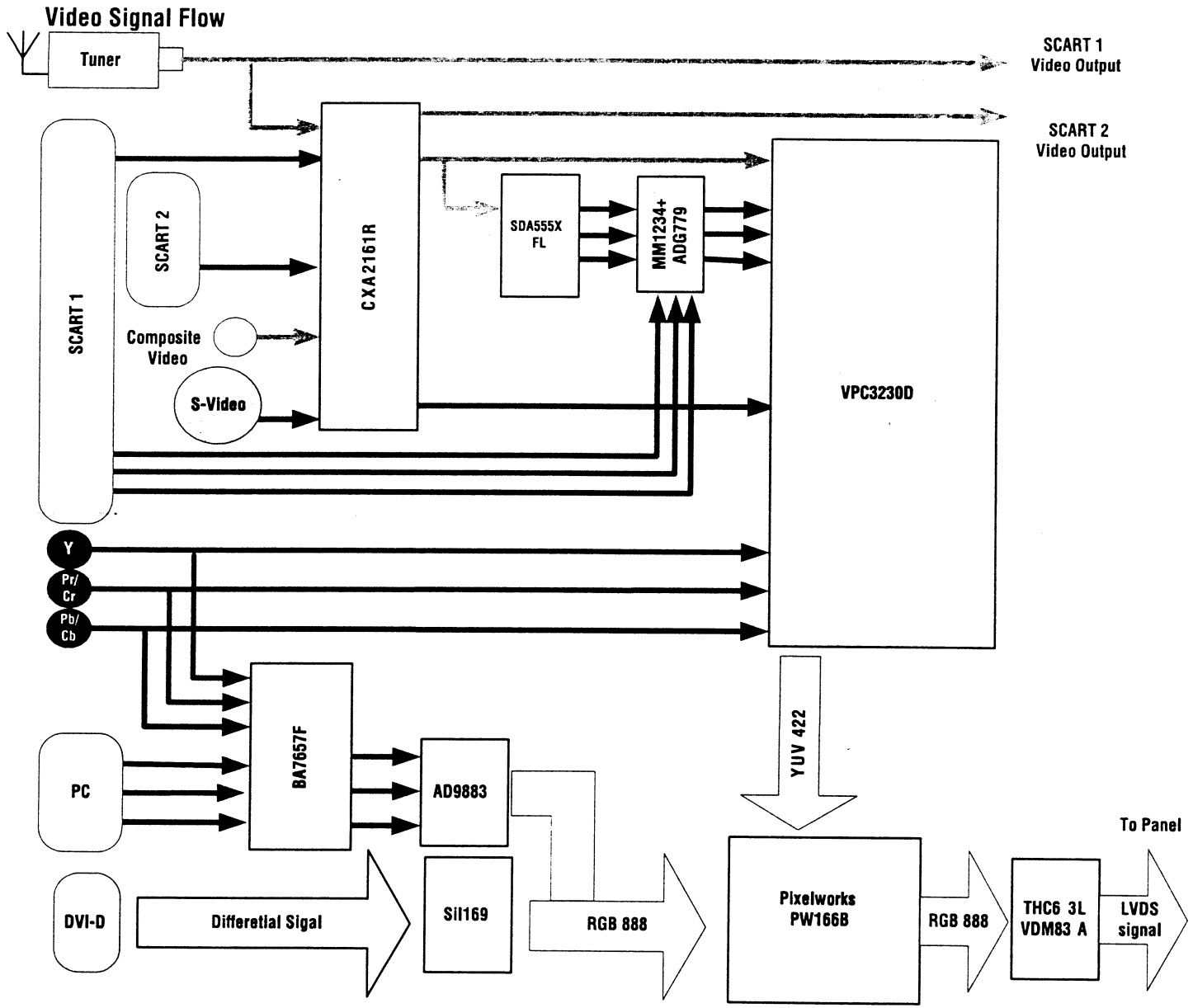
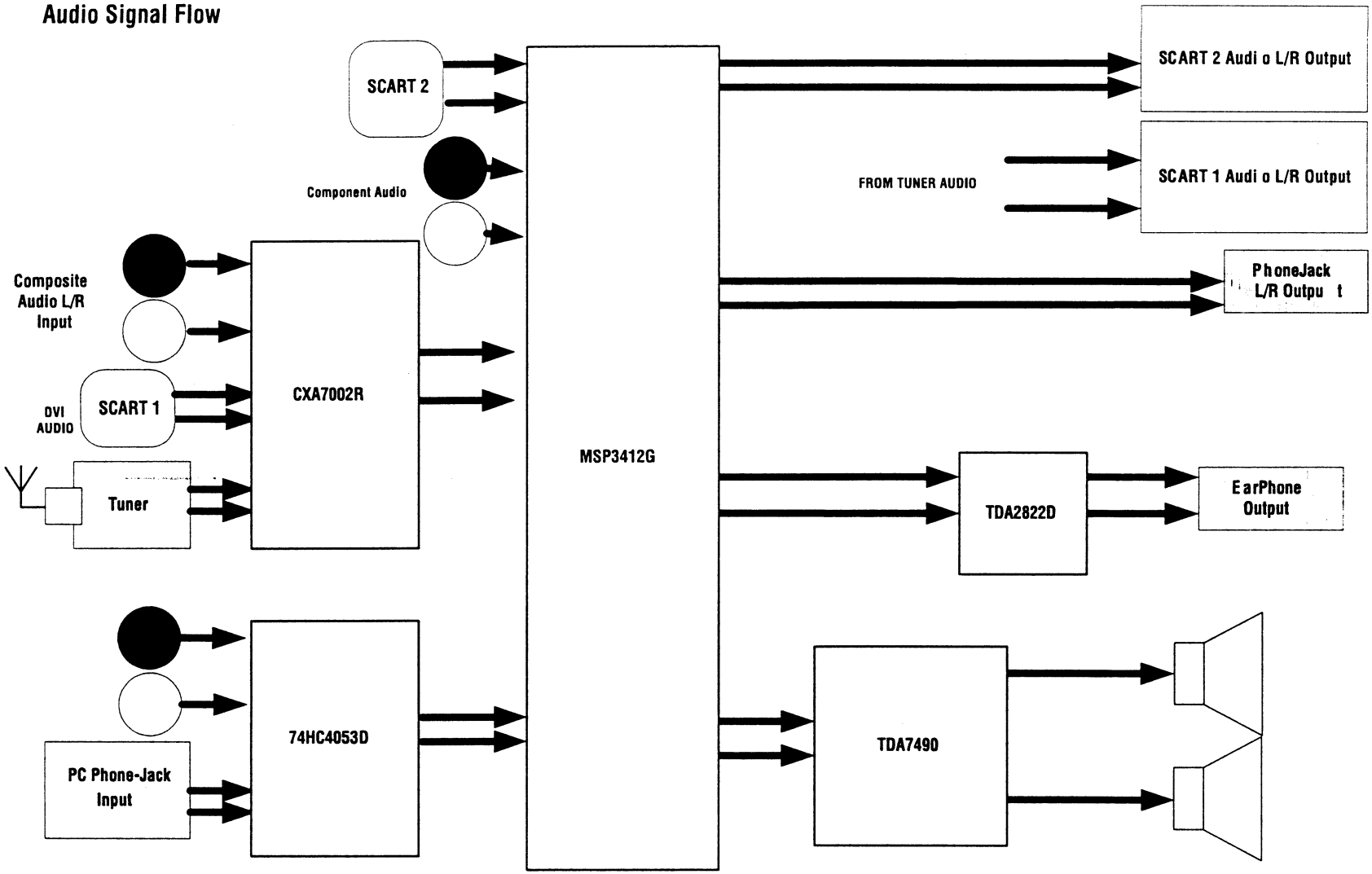
Block Diagram




Video Signal Flow
Tuner
SCART 1
Video Output
SCART 2
Video Output
SCART 1
SCART 2
CXA2161R
SDA555X
FL
MM1234+
ADG779
VPC3230D
Composite
Video
S-Video
Y
Pr/
Cr
Pb/
Cb
PC
BA7657F
AD9883
YUV 422
To Panel
DVI-D
Differetial Sigal
Sil169
RGB 888
Pixelworks
PW166B
RGB 888
THC6 3L
VDM83 A
LVDS
signal

Audio Signal Flow



SERVICE MODE - MODE SERVICE - SERVICE-MODE - MODO SERVICIO

Figure Overview OSD

(EN)

Service Mode Operation Manual

Model support: **15" 20" and 20"** bi-sonic
Service Mode
1. Press the **"menu"** button, and then the screen display will appear **"Overview"** OSD, below as Figure Overview OSD. Then press the **"info"** button and **"1"**, **"0"**and **"3"** buttons step by step to enter **Service Mode**. And Figure Service mode will appear on the screen display.

(FR)

Mode Service
1.Presser la touche **"Menu"** l'ecran de selection ci-dessus apparait Presser la touche **"Info"**, la touche **"1"** puis les touches **"0"** et **"3"** pour acceder au **"Mode Service"**

(IT)

Manuale Procedura Service Mode

Modelli: **15" 20" e 20"** bi-colonna
Service Mode
1. Premere il tasto **"menu"** per far visualizzare il menu **"Sommario"**, vedi pagina OSD.
Poi premere sequenzialmente i tasti **"info"** , **"1"**, **"0" e "3"** per entrare in Service mode. Il menu di Service mode verrà visualizzata sullo schermo.
Per cambiare pagina premere il tasto "Menu".
Menu Sommario

(DE)

Anleitung Service Mode

Für Modelle: **15", 20" und 20"** bi-sonic
Service Mode
1. Drücken sie die **„MENU"** – Taste. Es erscheint das **„Übersicht"** –Menü (siehe Abbildung 1). Drücken sie dann nacheinander die Tasten **„INFO", „1", „0", und „3"**. Die erste Seite des **Service-Modes** wird angezeigt (siehe Abbildung 2).

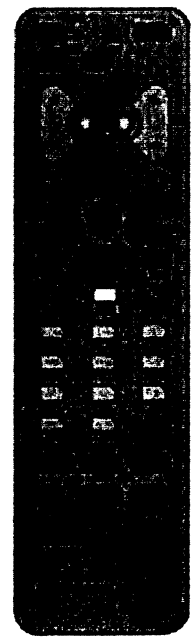
(ES)

Manual de operación del Modo Servicio

Para modelos de : 15", 20" y 20" bi-columna
Modo Servicio
1. Pulsar la tecla **"menú"**, en la pantalla se mostrará el menú **"OVERVIEW (ÍNDICE)"**, como se muestra en la figura **MENU OVERVIEW (ÍNDICE)**.
A continuación, pulsar las teclas **"info"**, **"1"**, **"0" y "3"** una tras otra para entrar en Modo Servicio y se mostrará la primera página del Modo Servicio en la pantalla.

NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE
SUCHE IN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO

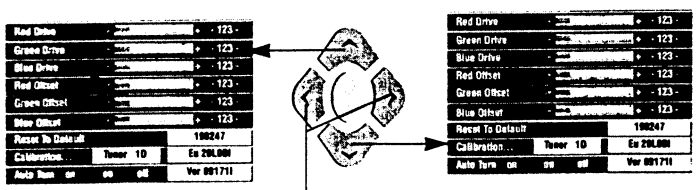
REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG
TELECOMANDO - MANDO A DISTANCIA



Changing page - Changement de page
Seitenwechsel - Cambiare Pagina - Cambio de página

- Press "Menu" button
- Appuyer sur la touche "Menu"
- Taste "Menu"
- Premere " Menu"
- Pulse "Menu"

Choosing a setting from the menu / setting e value
Choix d'un réglage dans un menu / Réglage d'une valeur
Wahl einer einstellung in einem menü / Einstellung eines wertes
Scegliere una Regolazione dal Menu / Selezione di un valore
Eleccion de un Ajuste en un menu / Ajuste de un valor



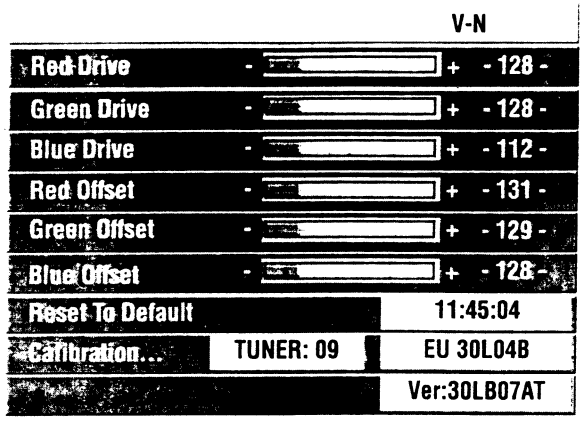
Naviagation up

Naviagation down

- "Change" value
- Réglage de la valeur
- Wert "ânden"
- "Cambiare" valore
- "Cambiar" valor

> → VALUE

< → VALUE


V-N
Red Drive - + - 128 -
Green Drive - + - 128 -
Blue Drive - + - 112 -
Red Offset - + - 131 -
Green Offset - + - 129 -
Blue Offset - + - 128 -
Reset To Default
11:45:04
Calibration...
TUNER: 09
EU 30L04B
Ver:30LB07AT

(EN)

1. **Color Temp: P-N** means "Normal" on YpbPr, **V-N** means "Normal" on Video mode. Each item decide different gamma curve.
2. **Red drive, Green drive and blue drive** means gamma RGB gain. Control by scaler
3. **Red offset, Green offset and blue offset** means gamma RGB offset. Control by scaler
4. **Reset To Default:** press **OK** will load all default value on **User OSD**
5. **Calibration:** press this botton guide to calibrate A/D converter white and black level on PC input. Also guide to calibrate A/D converter PbPr offset on YpbPr input.
6. **MV enable: (30")** designer debug tool revision
(this is information only)

(FR)

1. **Color Temp:** Temperature des couleurs.
P-N correspond à un reglage "Normal" /YpPr
V-N correspond à un reglage "normal" / mode vidéo
chaque item permet de règler la courbe de gamma.
2. **Red drive, Green drive and blue drive:** green drive et Bleu drive correspond aux reglages de gain
du gamma RVB (controlé par le scaler).
3. **Red offset, green offset et blue offset:** correspond aux réglage d'offset du gamma RVB (controlé par le scaler).
4. **Reset To Default:** Appuyer sur "OK".
Charger les valeurs par defaut sur le menu OSD.
5. **Calibration:** Appuyer sur "OK" pour valider.
Etalonne les niveaux blanc et noir du convertisseur A/D de l' entrée PC
Etalonne egalement les offset Pb/Pr du convertisseur A/D sur l' entrée Ypb Pr.
6. **MV enable:** Port Vidéo Chip 323 (Seulement Utilisé pour le debuggage en conception). Si vous quittez le menu usine, la fonction n'existe plus.

(DE)

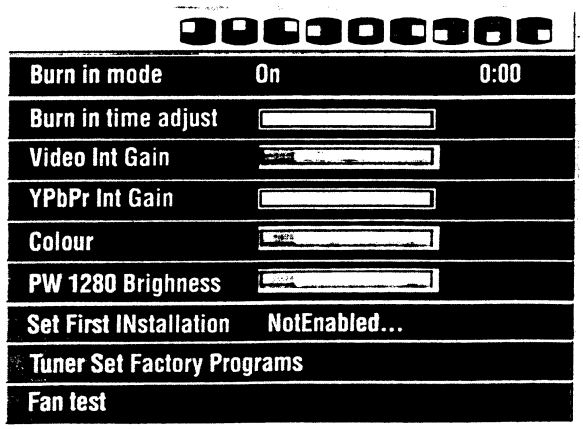
1. **Color Temp: P-W** steht für „Warm im YPbPr-Mode, **P-N** steht für „Neutral" bei YPbPr-Mode, P-C steht für „Kalt" im YPbPr,-Mode, V-W steht für „Warm" im Video-Mode, V-N steht für „Neutral" im Video-Mode, V-C steht für „Kalt" im Video-Mode. Alle Modi haben unterschiedliche Gamma-Kennlinien.
2. **Red Drive, Green Drive und Blue Drive:** Einstellung der RGB-Verstärkung
3. **Red Offset, Green Offset und Blue Offset:** Einstellung des RGB-Offsets
4. **Reset to Default:** Durch Drücken der **"OK"**-Taste werden die Benutzerdaten gelöscht und die Defaultwerte geladen.
5. **Calibration:** Kalibrieren der Schwarz- und Weißpegel des AD-Wandlers des PC-Eingangs.
6. **MV enable: (30")** Chip 323 Video-Port (Nur für Entwicklungszwecke, hat keine Funktion sobald der Produktionsmode verlassen wird.)

(IT)

1. **Color Temp:** P-N significa "Normale" in funzione YPbPr, V-N significa "Normale" in funzione Video. Ogni selezione determina una differente curva di risposta.
2. **Red Drive, Green Drive** e Blue Drive significa guadagno gamma RGB. Controllato da una scala.
3. **Red Offset, Green Offset** e Blue Offset significa Offset gamma RGB. Controllato da una scala.
4. **Reset To Default:** premendo OK verranno caricati tutti i valori di Default nel Menu Utente.
5. **Calibration:** premere questo tasto guida per calibrare il livello Bianco /Nero del convertitore A/D dell'ingresso PC. Calibra anche l'offset del convertitore A/D PbPr dell'ingresso YpbPr.
6. **MV enable: (30")**

(ES)

1. **Color Temp:** P-N significa **"Normal"** en modo YpbPr, V-N significa "Normal" en modo Video. Cada elemento tiene una curva de gamma distinta.
2. **Red drive, Green drive** y Blue drive ajustan la ganancia de la gamma RGB.
3. **Red offset, Green offset** y Blue offset ajustan el offset de la gamma RGB.
4. **Reset To Default:** Al pulsar OK se cargarán todos los valores por defecto del menú de usuario
5. **Calibration:** Pulsando este botón ayuda a calibrar el convertidor A/D de nivel de blanco y negro
para la entrada de PC. También sirve para calibrar el offset del convertidor A/D PbPr en la entrada YpbPr.
6. **MV enable: (30")** puerto de vídeo c.i. 323 (uso solamente por el diseñador, si se deja el menú de fábrica, no funciona mas)



(EN)

7. OSD position: OSD position selection.
8. Burn in mode: For development only. Value change is not recommended.
9. Burn in time Adjust: For development only. Value change is not recommended.
10. Video int Gain: this slider bar used to align brightness spec of Video mode. Larger value bring to brighter. Control by Video decoder VPC3230
11. YPbPr: For development only. Value change is not recommended.
12. Colour: adjust color saturation. Same funct ion on User OSD. Control by Video decoder VPC3230.
13. Tuner Set V-Level: not used
14. Tuner Get V-Level: not used.
15. Set First Installation: "Enable" means TV will pop-up installation OSD at next power-on.
16. Tuner Set Factory Programs: not used.
17. Fan test: For development only. Value change is not recommended
17-1. Enter PW1230 Adjustment page: Deinterlacer parameters control. For development only. Value change is not recommended.

(IT)

7. OSD position: Selezione posizione OSD.
8. Burn in mode: Utilizzato per la fabbrica. Si consiglia di non cambiare valore.
9. Burn in time Adjust: Utilizzato per la fabbrica. Si consiglia di non cambiare valore.
10. Video int Gain: Regola il livello di luminosità in funzione Video. Più alto è il valore più l'immagine è luminosa. Controllo tramite il Decoder Video VPC3230.
11. YPbPr: Utilizzato per la fabbrica. Si consiglia di non cambiare valore.
12. Colour: Regola la saturazione del colore. Stessa funzione del Menu utente. Controllo tramite Video Decoder VPC3230.
13. Tuner Set V-Level: Non utilizzato.
14. Tuner Get V-level: Non utilizzato.
15. Set First Installation: "Enable" significa abilitazione, all'accensione, del menu di prima installazione.
16. Tuner Set factory Programs: Non utilizzato.
17. Fan test: Utilizzato per la fabbrica. Si consiglia di non cambiare valore.
17-1. Enter PW Adjustment page: Controllo parametric Deinterlacer. Utilizzato in fabbrica. Si consiglia di non cambiare valore.

(FR)

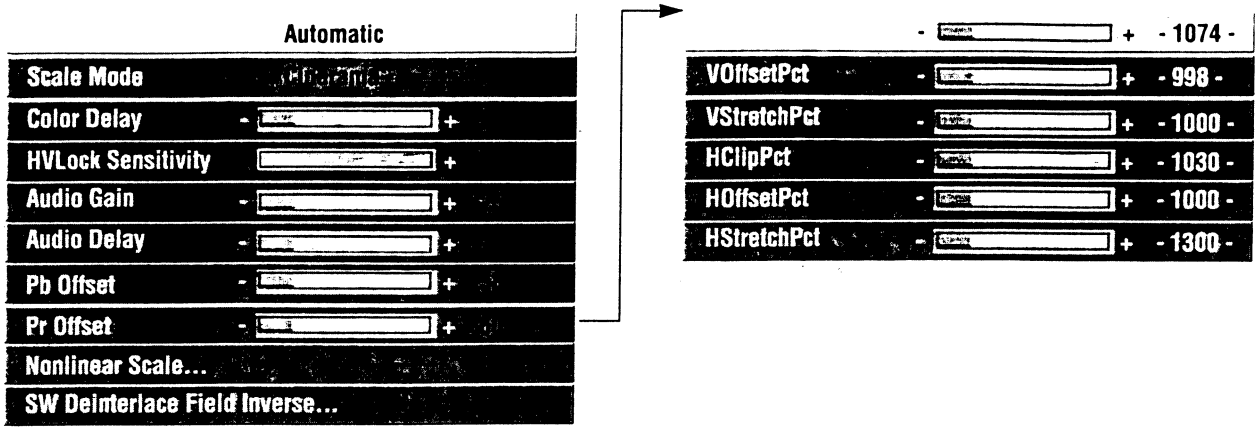
7. OSD position: Selection de la position OSD.
8. Burn in mode: Réglage usine, ne pas modifier.
9. Burn in time Adjust: Réglage usine, ne pas modifier.
10. Video int Gain: Réglage de la lumière en mode vidéo. Contrôle par le décodeur vidéo VP¯C 3230.
La position élevèe du curseur augmente la lumière.
11. YPbPr: Réglage usine, ne pas modifier.
12. Colour: Régle la saturation de la couleur.
13. Tuner Set V-Level: Pas utilisé.
14. Tuner Get V-Level: Pas utilisé.
15. Set First Installation: Signifie que la TV à la prochaine mise sous tension affichera le menu d' installation.
16. Tuner Set Factory Programs: Pas utilisé.
17. Fan test: Réglage usine, ne pas modifier.
17-1. Enter PW1230 Adjustment page: Ne pas modifier. Réglage usine Contrôle les parametres " Deinterlacer".

(ES)

a7. OSD position: Selecciona la posición del OSD.
8. Burn in mode: No se recomienda cambiar este valor
9. Burn in time Adjust: No se recomienda cambiar este valor
10. Video int Gain: Esta barra deslizante se utiliza para ajustar las especificaciones del brillo en el modo Video. Cuanto mayor sea el valor, más brillante. Control por el descodificador de Video VPC3230
11. YPbPr: No se recomienda cambiar este valor
12. Colour: ajusta la saturación del color. Es la misma función que el menú de usuario. Control por el descodificador de Video VPC3230.
13. Tuner Set V-Level: no utilizado.
14. Tuner Get V-Level: no utilizado.
15. Set First Installation: "Enable" significa que la próxima vez que se conecte el TV aparecerá el menú de primera instalación.
16. Tuner Set Factory Programs: no utilizado.
17. Fan test: No se recomienda cambiar este valor
17-1. Enter PW1230 Adjustment page: control de los parámetros de Deinterlacer. No se recomienda cambiar este valor.

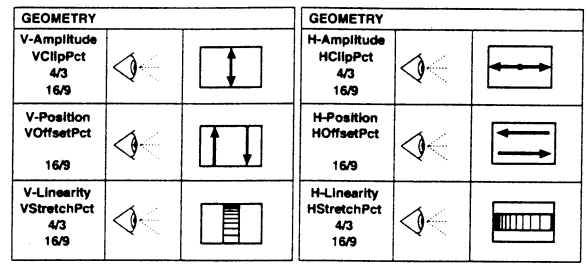
(DE)

8. OSD Position: Wahl der Menü-Position auf dem Bildschirm
9. Burn in mode: Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
10. Burn in time Adjust: Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
11. Video Int Gain: Helligkeitsvoreinsteller für den Video-Mode. Steuerung über den Videodecoder VPC3230.
XX. YPbPr: Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
12. Colour: Einstellung der Farbsättigung; gleiche Funktion wie die Benutzersteuerung. Steuerung über den Videodecoder VPC3230.
13. Tuner Set V-Level: nicht benutzt
14. Tuner Get V-Level: nicht benutzt
15. Set First Installation: „Enable" lässt beim nächsten Einschalten des Gerätes nach einer Netztrennung das Installationsmenü erscheinen.
16. Tuner Set Factory Programs: nicht benutzt.
17. Fan test: Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
17-1. Enter PW1230 Adjustment Page: Abgleich der Parameter des Deinterlacers. Eine Änderung dieser Grundeinstellungen ist nicht empfehlenswert.



(EN)

18. PW Gamma: gamma curve selection. "Automatic" means pick-up proper gamma curve automatically when user choose Normal, Warm and Cool. Value change is not recommended.
19. Scale Mode: screen ratio selection.
21. HV Lock Sensitivity: Tuner HV sync sensitivity. Value change is not recommended. Fake programme be detected or Real programme be skipped.
22. Color Delay: Color timing delay which only impact on Video mode. For development only. Value change is not recommended
23. Audio gain: not used.
24. Pb offset: adjust Pb offset on YpbPr input.
25. Pr offset: adjust Pr offset on YpbPr input.
These 2(25,26) Functions above could be automatically done by "Calibration" page1.



(FR)

18. PW Gamma: Selection de la courbe de gamma "Automatic" correspont à l'optention de la courbe de gamma appropriée quand l'utilisateur choisit la position froide, neutre, chaude ou le rendu des couleurs est meilleur.
il est deconseillé de sélectionner la position "value Change".
19. Scale Mode: Selection format d'ecran.
21. HV Lock Sensitivity: Sensibilité de la Synch. HV tuner.
Il est imperatif de ne pas modifier sa valeur.
Le tuner détectera les mauvais progrmmes ou passera les programmes corréctes.
22. Color Delay: Réglage du "délai" couleur en mode vidéo.
Réglage usine, ne pas modifier.
23. Audio gain: Non utilisé.
24. Pb offset: Réglage de l'offset Pb sur l' entrée Ypb Pr.
25. Pr offset: Réglage de l'offset Pr sur l'entée Ypb Pr.
Ces 2 réglages (25, 26) sont automatiquement effectues par "calibration" de la page 1 du mode service.

(IT)

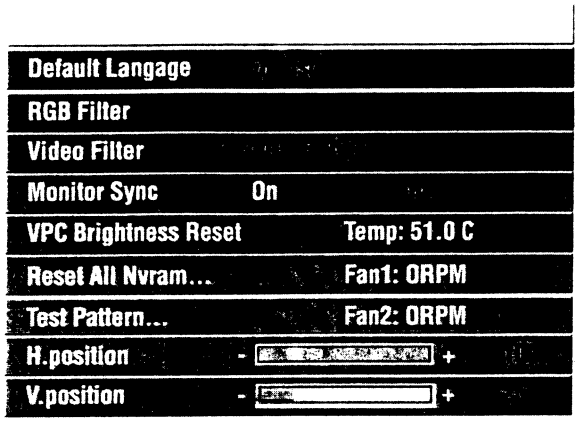
18. PW Gamma: Selezione curva gamma. In "Automatic" viene selezionata automaticamente la curva gamma ideale, in base alla scelta utente Calda, Fredda o Neutra, nella funzione Tonalità . Si consiglia di non cambiare valore.
19. Scale Mode: Selezione Rapporto schermo.
21. HV Lock Sensitivity: Sensibilità Sync HV Tuner. Si consiglia di non cambiare valore. Livello soglia per saltare eventuali emittenti con segnale debole.
22. Color Delay: Regola il ritardo colore rispetto al segnale video. Utilizzato per la fabbrica. Si consiglia di non cambiare valore.
23. Audio Gain: Non utilizzato.
24. Pb offset: Regola l'offset Pb sul segnale YpbPr in ingresso.
25. Pr offset: Regola l'offset Pr sul segnale YpbPr in ingresso.
Le regolazioni menzionate nei punti 25 e 26 possono essere eseguite automaticamente come indicato nella riga "Calibration" di pagina 1.

(DE)

18. PW Gamma: Auswahl der Gamma-Kennlinie: Bei Einstellung „Automatic" wird automatisch die jeweilige Kennlinie gewählt, wenn der Benutzer zwischen Warm, Neutral oder Kalt umschaltet. Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
19. Scale Mode: Wahl des Bildformates
21. HV Lock Sensitivity: Empfindlichkeit des Synchrondetektors im Tuner. Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert, da sonst der Sendersuchlauf falsche Ergebnisse liefern könnte.
22. Color Delay: Einstellung Farbversatz. Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
23 Audio Gain: nicht benutzt
24. Pb Offset: Einstellung des Pb Offsets bei YPbPr.
25. Pr Offset: Einstellung des Pr Offsets bei YPbPr.
Zu 26 und26: Der Abgleich dieser Funktionen kann automatisch mit der Funktion „Calibration" auf der Service-Mode Seite 1 durchgeführt werden.

(ES)

18. PW Gamma: Selección de la curva de gamma. "Automatic" quiere decir que recuperará automáticamente la curva ideal de gamma cuando el usuario seleccione Normal, Cálido o Frío. No se recomienda cambiar este valor.
19. Scale Mode: selecciona la relación de pantalla.
21. HV Lock Sensitivity: Sensibilidad de los sincronismos HV del sintonizador para la búsqueda de emisoras. No se aconseja cambiar este valor. Los canales reales pueden ser ignorados o los falsos memorizados.
22. Color Delay: Retardo del color en modo Video. No se recomienda cambiar este valor
23. Audio gain: no utilizado.
24. Pb offset: ajuste del offset de Pb en la entrada YpbPr.
25. Pr offset: ajuste del offset de Pr en la entrada YpbPr.
Estas 2 funciones anteriores (25,26) serán hechas automáticamente en **"Calibration"** de la página 1.



(EN)

26. Auto Adjustment: auto adjustment new timing(position ,phase...etc). Only active on PC mode.
27. Default Language: set default language. Same function on User OSD.
28. RGB filter: sharpness filter of PC port of scaler. Impact on PC and YpbPr input
29. Video filter: sharpness filter of Video of scaler. Impact on TV Video and YcbCr.
30. Monitor Sync: force to **"On"**. So that **Video format** can auto detection.
31.VPC Brightness Reset: For development only. Value change is not recommended.
32. Reset All Nvram: press **"OK"** will reset all parameters on service mode, including color temp settings, brightness setting....etc.
33. Test Pattern: display test-pattern which generate by scaler. Only active on PC source.
34. H.Position: adjust horizontal position while PC source in
35. V.Position: adjust Vertical position while PC source in

(IT)

26. Auto Adjustment: Auto regolazione nuove temporizzazioni (posizione, fase ... etc). Attivo solo in funzione PC.
27. Default language: Seleziona la lingua. Stessa funzione del Menu Utente.
28. RGB Filter: Definizione filtro del demoltiplicatore (scaler) della porta PC. Influisce sugli ingressi PC e YpbPr.
29. Video Filter: Definizione filtro del demoltiplicatore del segnale Video. Influisce sui segnali TV Video e YcbCr.
30. Monitor Sync: Forzato su **"On"**. In questo modo può essere rilevato automaticamente il Formato Video.
31.VPC Brightness Reset: Utilizzato per la fabbrica. Si consiglia di non cambiare valore.
32. Reset All Nvram: Premendo **"OK"** verranno resettati tutti I parametri del Service Mode, inclusi regolazione Temp. Colore, Regolazione Luminosità, ... ecc.).
33. Test Pattern: Attivazione serie di segnali test. Attivo solo con ingresso PC.
34. H. Position: Regola la posizione Orizzontale in ingresso PC.
35. V. Position: Regola la posizione Verticale in ingresso PC.

(FR)

26.Auto Adjustment: Actif seulement en mode PC. Auto réglage des nouveaux parametres de temps (Position, phase..).
27. Default Language: Selectionne la langue par défaut. Même fonction que le réglage utilisateur.
28. RGB filter: Filtre Contour RGB du Port PC.
29. Video filter: filtre contour Vidéo. Agit sur les entrées TV Vidéo et Ye bCr.
30. Monitor Sync: Forcé à ON Auto détection du format Vidéo.
31.VPC Brightness Reset: Réglage usine, ne pas modifier.
32. Reset All Nvram: Appui sur "OK".
Reset De tous les parametres du "MODE SERVICE" incluant la tempèrature de couleur, Contour... etc.
33. Test Pattern: Affichage de la mire interne. Actif seulement en mode PC
34. H.Position: Réglage Horizontal en mode PC.
35. V.Position: Réglage Vertical en mode PC.

(ES)

26. Auto Adjustment: Autoajuste de nuevo timing (posición, fase...etc). Sólo activo en modo PC.
27. Default Language: selecciona el idioma por defecto. Hace la misma función que el menú "Usuario".
28. RGB filter: filtro de nitidez. Válido para las entradas de PC e YpbPr.
29. Video filter: filtro de nitidez. Válido para las entradas de TV, Video e YcbCr.
30. Monitor Sync: forzado a "On". El formato de video puede ser autodetectado.
31.VPC Brightness Reset: No se recomienda cambiar este valor
32. Reset All Nvram: pulsando "OK" se borrarán todos los parámetros del Modo Servicio, incluyendo los ajustes de temperatura de color, ajustes de brillo y contraste....., etc.
33. Test Pattern: muestra unas cartas de ajuste generadas internamente. Activo solamente en modo PC.
34. H. Position: ajusta la posición horizontal sobre la entrada PC.
35. V. Position: ajusta la posición Vertical sobre la entrada PC.

(DE)

26. Auto Adjustment: Automatischer Abgleich von Timing, Lage, Phase usw. im PC-Mode
27. Default Language: Auswahl der Menüsprache; gleiche Funktion wie die Benutzersteuerung.
28. RGB Filter: Abgleich des Schärfefilters des Scalers für PC-Mode und YPbPr.
29. Video Filter: Abgleich des Schärfefilters des Scalers für den Video-Mode.
30. Monitor Sync: Sollte immer auf **„On"** stehen damit das **Videoformat** automatisch erkannt wird.
31.VPC Brightness Reset: Eine Änderung dieser Grundeinstellung ist nicht empfehlenswert.
32. Reset All Nvram: Drücken der **„OK"**-Taste setzt alle Parameter im Service-Mode (auch Farbtemparatur, Helligkeit usw.) zurück.
33. Test Pattern: Zeigt ein vom Scaler erzeugtes Testmuster auf dem Bildschirm. Nur im PC-Mode.
34. H.Position: Horizontallage für PC-Eingang.
35. V.Position: Vertikallage für PC-Eingang.

Life Time	**00009:30**	**00005:05**
Project Code	**EU27L04B**	
Panel Resolution	**1280 X 720**	
NvRam Ver.	**15 / 94**	
HXV Res / HFreq	**649 X 546**	**15,68 KHz**
HXV Total	**864 X 625**	
Mode Num	**64**	
DCLK	**81 MHz**	

SDK 2.2 SPB Release Build: Sept 9 2004 17:46:49

Factory Save... **TUNER: 09**

(EN)

36. Life Time: The left item means the time added by stand by + TV on The right item display the time of TV-on only.
37. Project Code: as title
38. Panel Resolution: as title
39. NvRam Ver. Display EEPROM data veriosn.
40. HXV Res / Hfreq: timing information. Resolution and H clock
41. HXV Total: timing information.
42. Mode Num: timing information. Sequence of Timing chart.
43. DCLK: timing information. Data clock
These (41,42,43,and 44) items above are for development check only.
44.SDK: Designer debug tool revision (this is information only)
45. Factory save: save factory parameters.

(IT)

36. Life Time: Il contatore a sinistra indica il tempo totale di funzionamento in Stand By + apparecchio acceso. Il contatore a destra indica il tempo totale di funzionamento ad apparecchio acceso **(ON)**.
37. Project code: Codice progetto.
38. Panel Resolution: Risoluzione pannello.
39. NvRam Ver: Versione EEPROM.
40. HXV res / Hfreq: Informazione timing. Risoluzione e Clock H.
41. HXV Total: Informazioni timing.
42. Mode Num: Informazioni Timing. Sequenza carta tempi.
43. DCLK: Informazioni Timing. Clock Data.
I valori menzionati nei punti 41, 42 43 e 44 sono solo per la fabbrica
44.SDK:
45. Factory save: Parametri memorizzati in fabbrica.

(FR)

36. Life Time:
-Indication de gauche:
indique le temps fonctionnement total du TV: On+ Stand by.
-Indication de droite:
Indique le temps de fonctionnement du TV en On seulement.
37. Project Code: Info code.
38. Panel Resolution: Resolution du panneau d'écran.
39. NvRam Ver. Version EEPROM.
40. HXV Res / Hfreq: Information de temps resolution et Horloge H.
41. HXV Total: Information de temps.
42. Mode Num: Information de temps
43. DCLK: Information de temps.Data clock.
Ces 4 lignes d'information sont utilisées en développement.
44.SDK: Version de l'outil de debuggage.
45. Factory save: Sauvegarde les paramétres usine.

(ES)

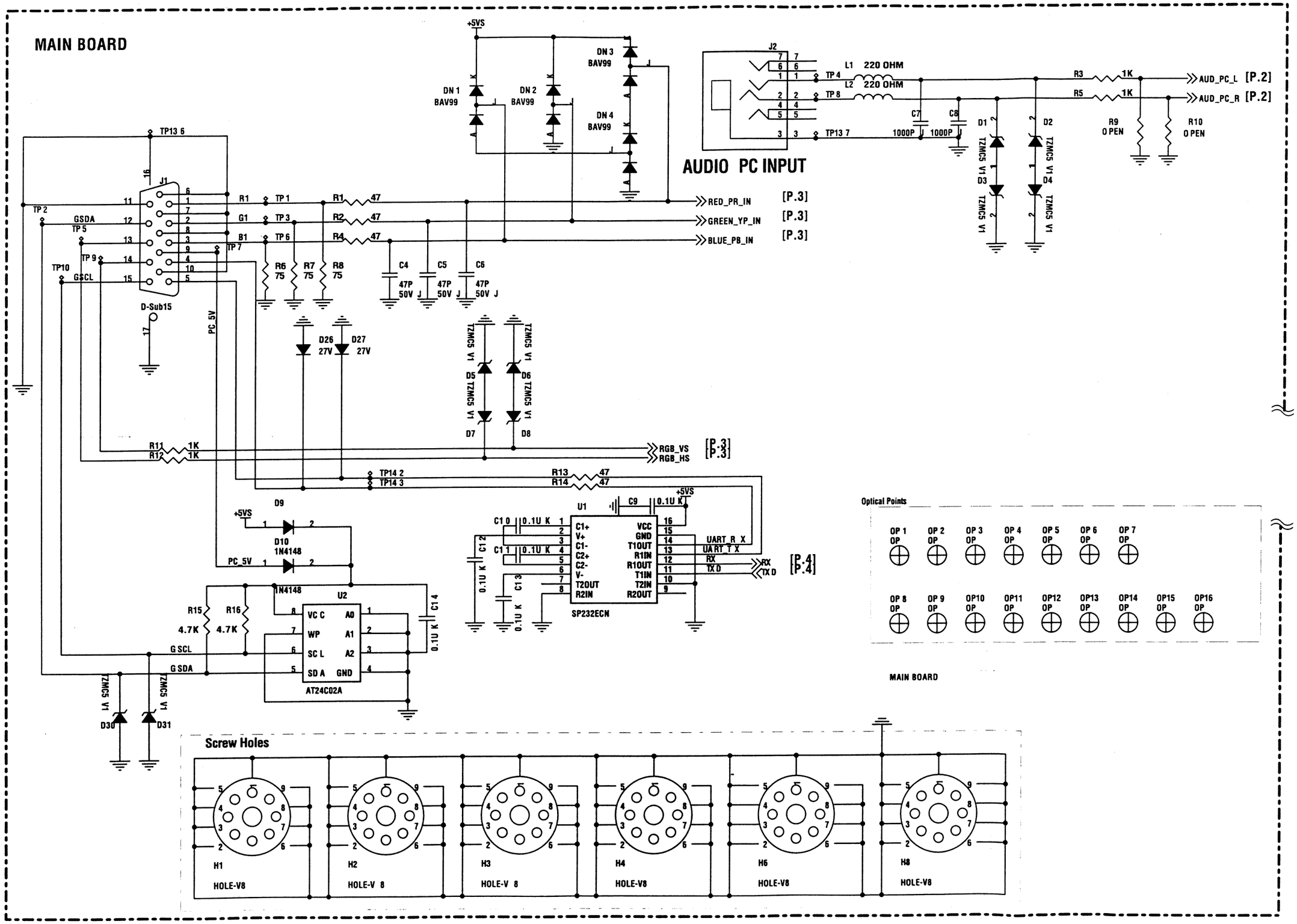
36. Life Time: Los números de la izquierda muestran la suma de las horas en stand-by + TV encendido. Los de la derecha indican sólo las horas de TV encendido.
37. Project Code: informativo
38. Panel Resolution: informativo
39. NvRam Ver. Indica la versión de la EEPROM.
40. HXV Res / Hfreq: información de timing. Resolución y frecuencia H.
41. HXV Total: información de timing.
42. Mode Num: información de timing.
43. DCLK: información de timing. Frecuencia del reloj.
Estas 4 funciones anteriores (41,42,43,y 44) son informativas. Sólo son para comprobación.
44.SDK: Herramienta para la revisión de los defectos de diseño (sólo para información)
45. Factory save: memoriza los valores de fábrica.

(DE)

Seite 5 des Service-Modes
36. Life Time: Betriebsstundenzähler, links: Summe Standby-Zeit und TV-Ein, rechts: nur TV-Ein-Zeit.
37. Project Code:
38. Panel Resolution: Auflösung der LCD-Panels
39. NvRam Ver. : Version EEPROM-Daten
40. HXV Res / HFreq: Timing-Information (Auflösung und H-Clock)
41. HXV Total: Timing Information
42. Mode Num Timing Information
43. DCLK: Timing Information Data Clock
44.SDK: Version des Entwicklungsdebugtools (nur zur Information).
45. Factory Save: Daten des Service-Modes speichern.

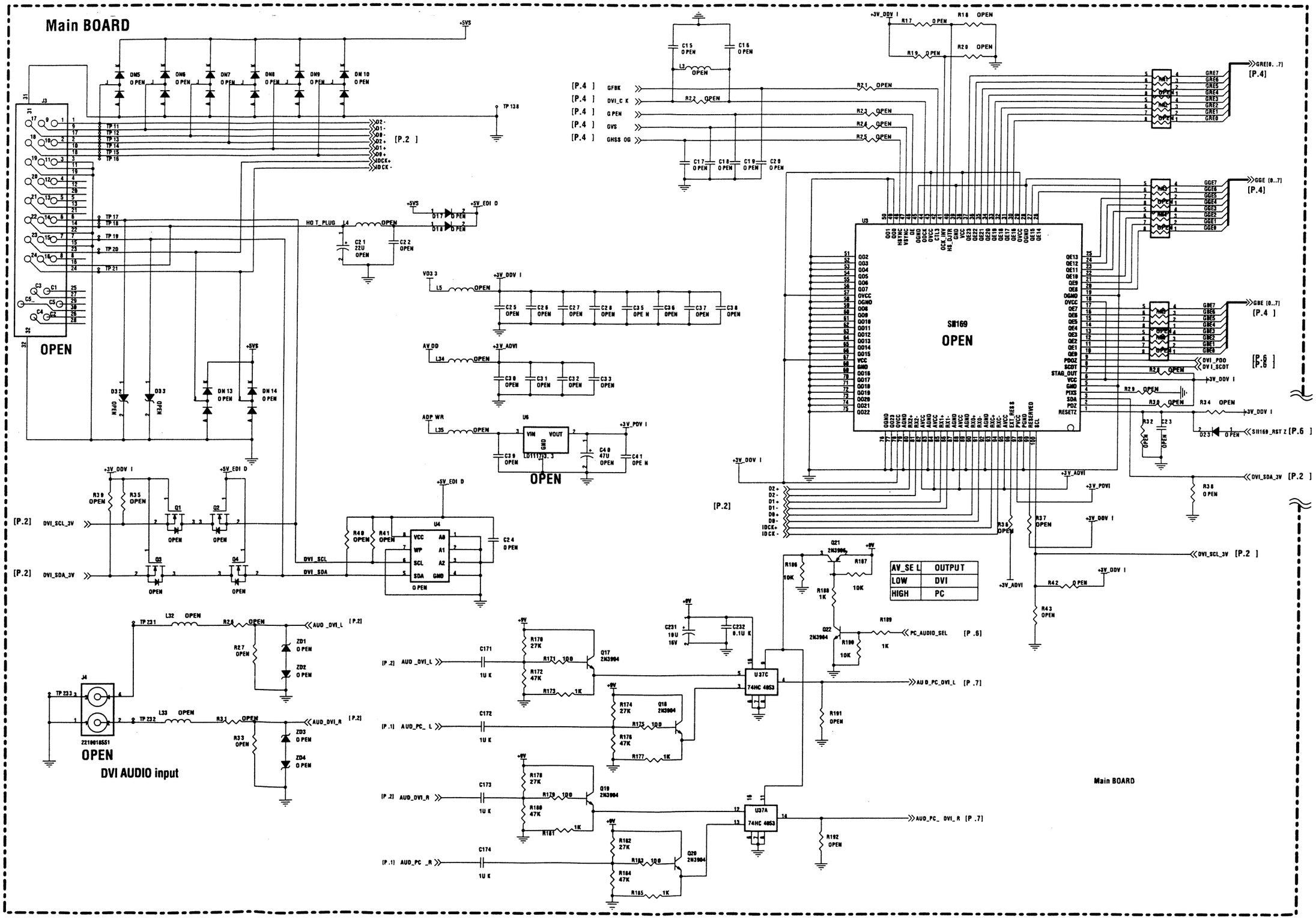
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

MAIN BOARD 1/11)



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

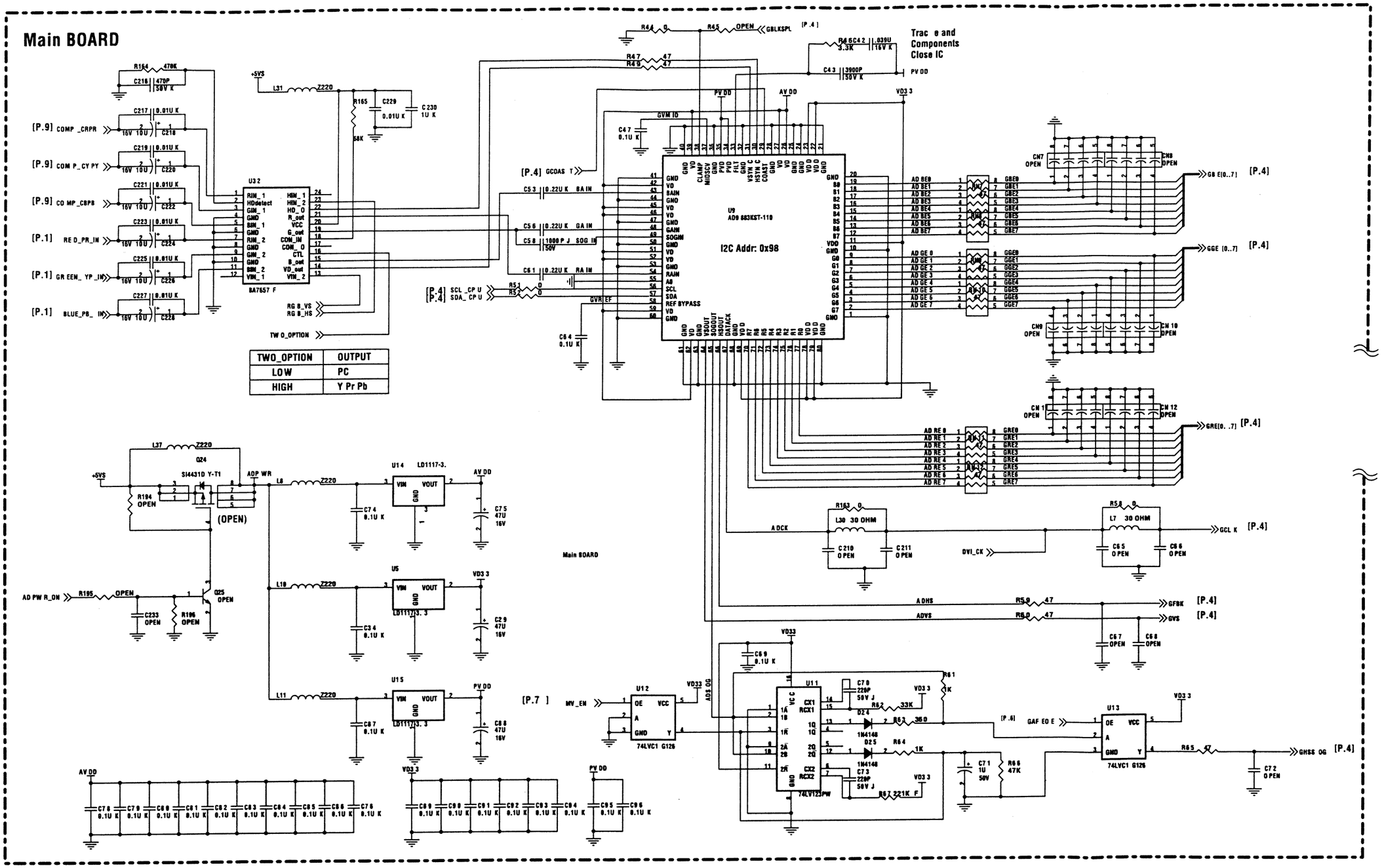
(MAIN BOARD 2/11)



LCD12B
First issue 01 / 05

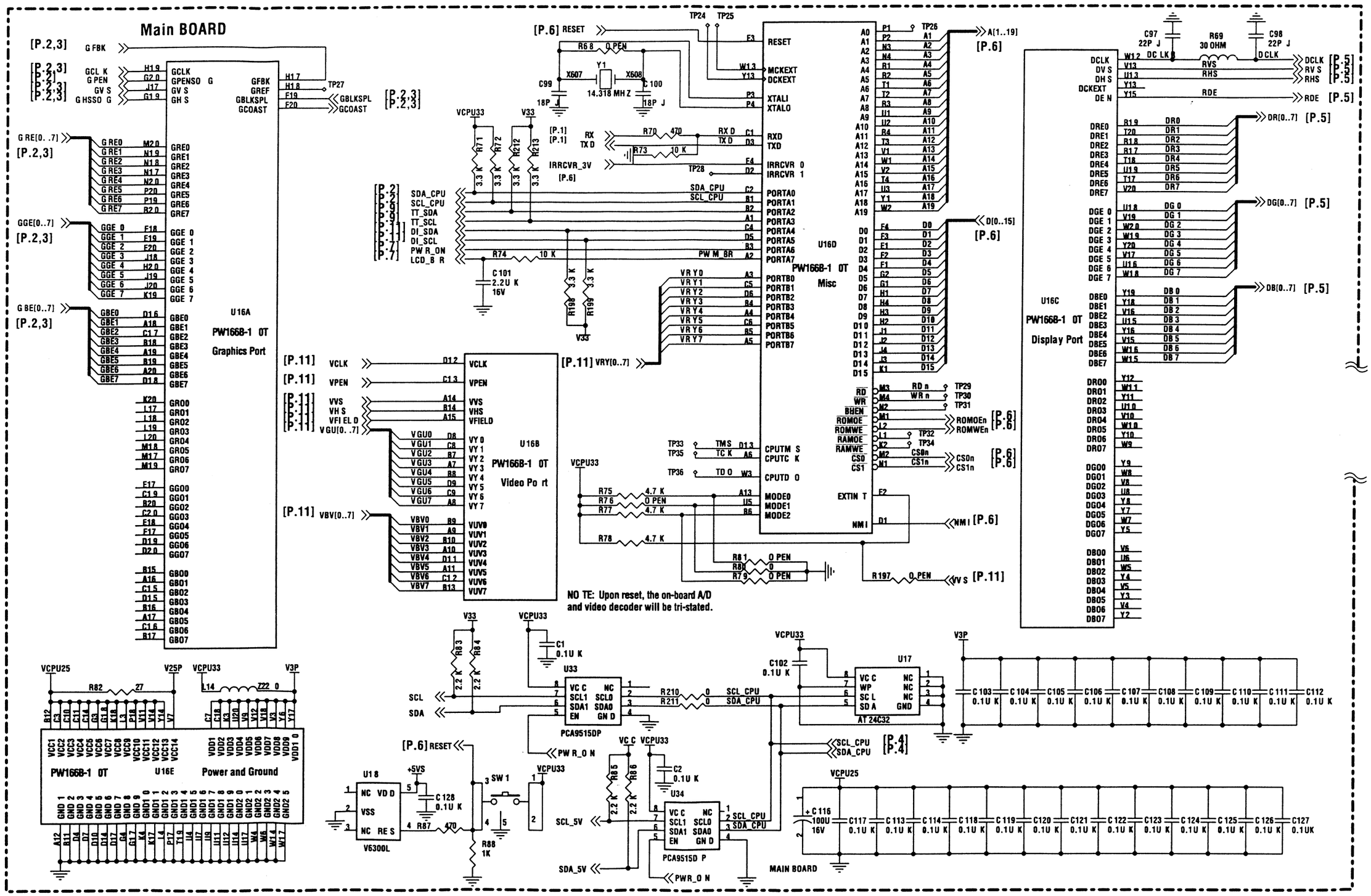
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

(MAIN BOARD 3/11)



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

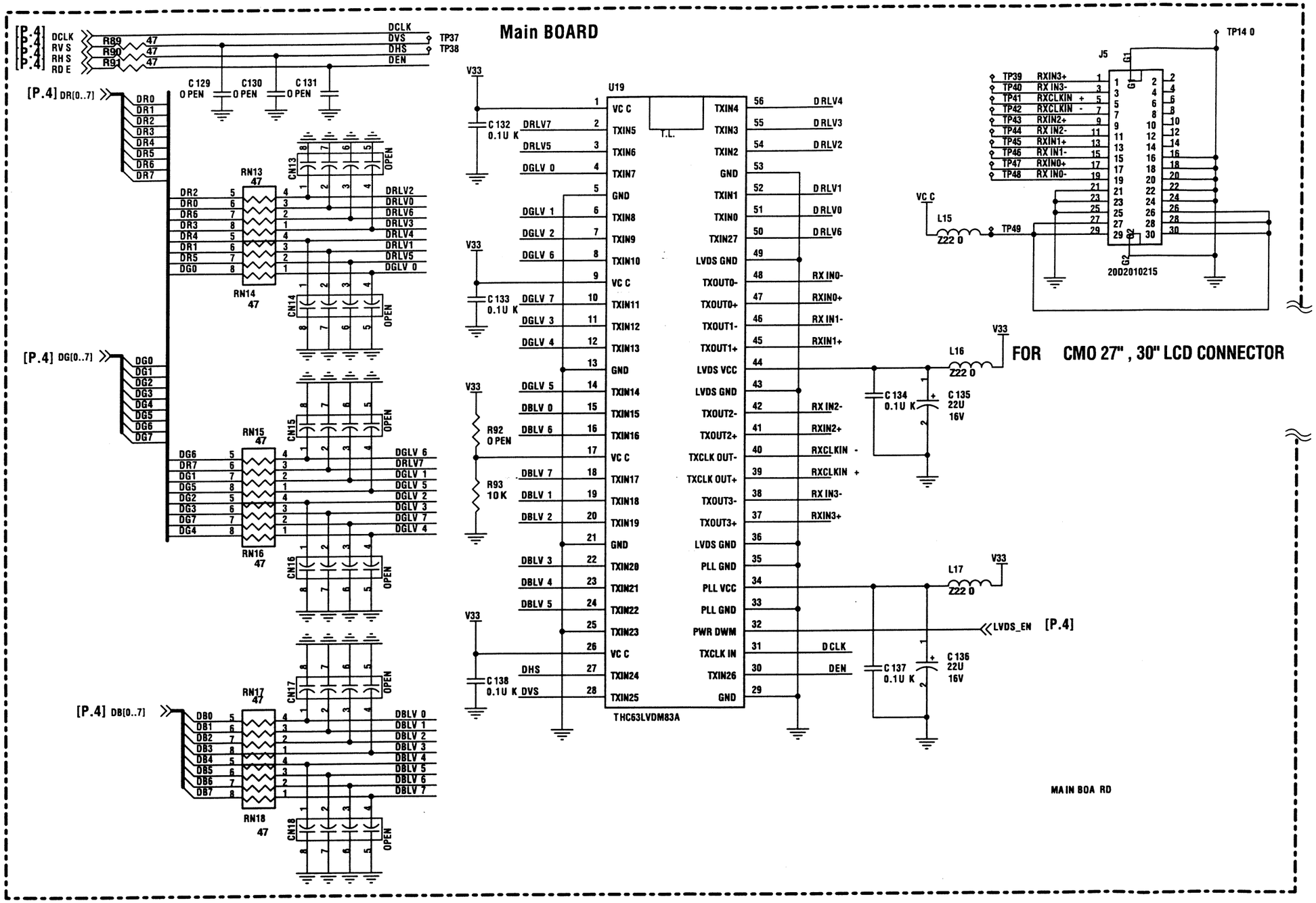
(MAIN BOARD 4/11)



LCD12B
First issue 01 / 05

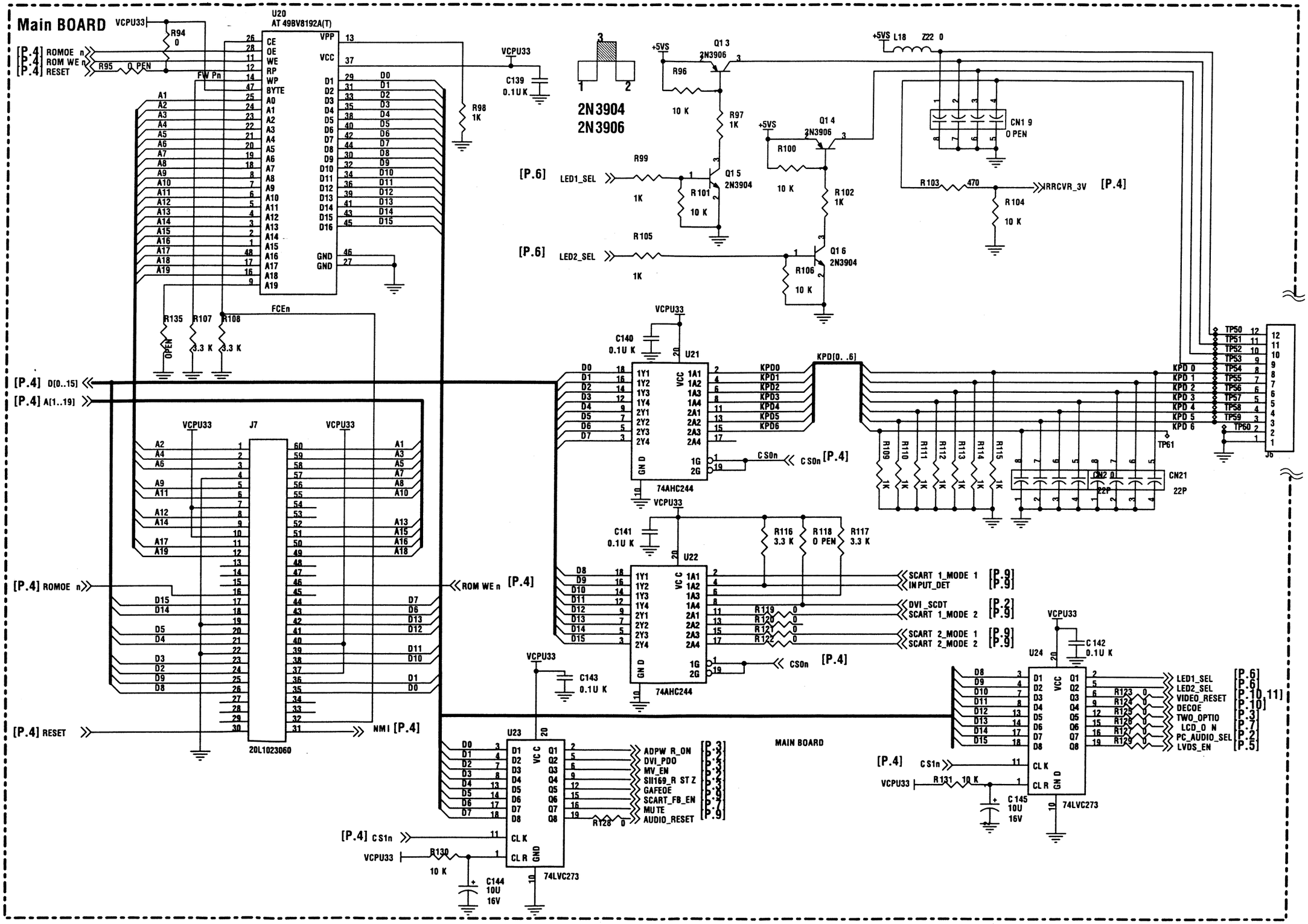
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

(MAIN BOARD 5/11)

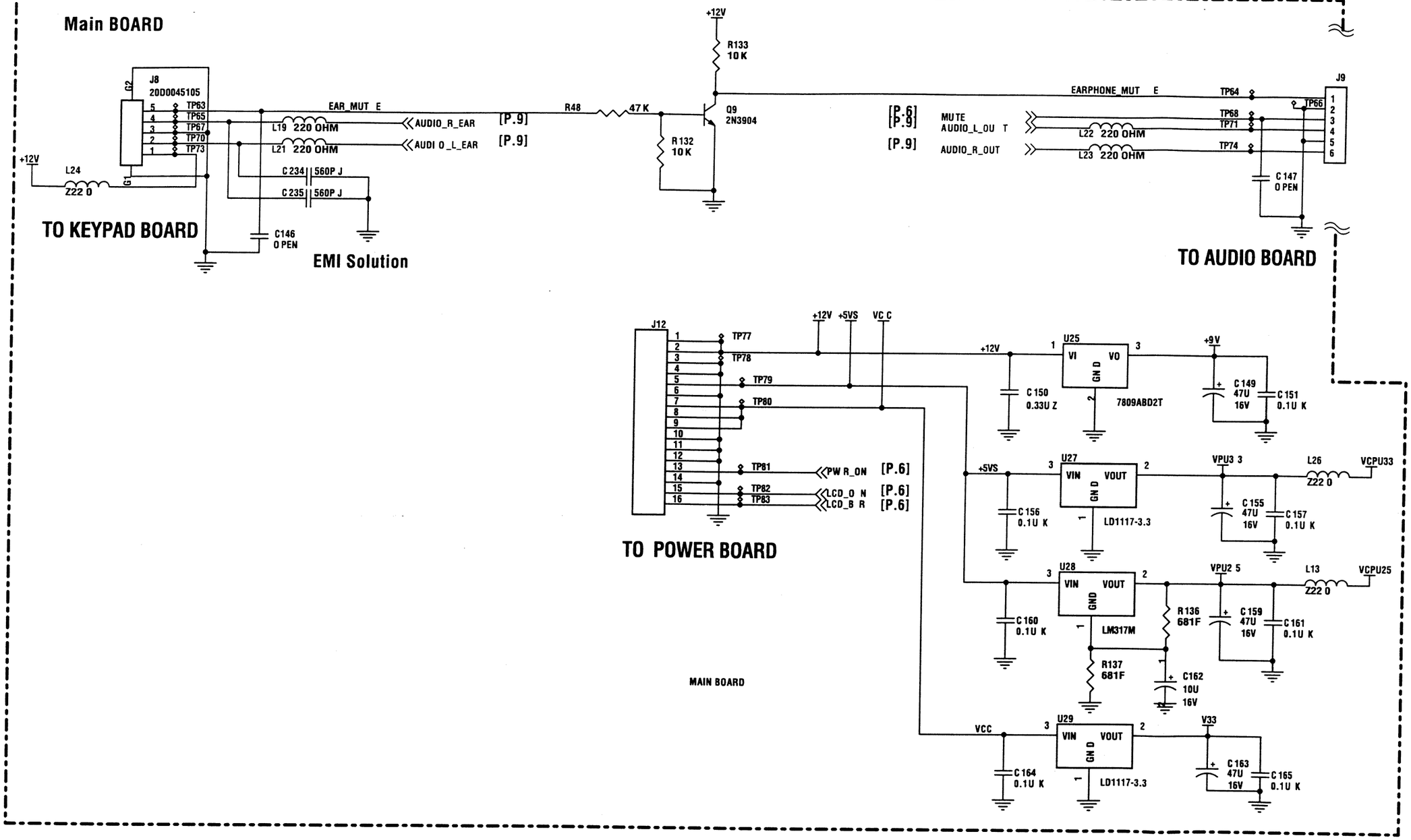


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

(MAIN BOARD 6/11)



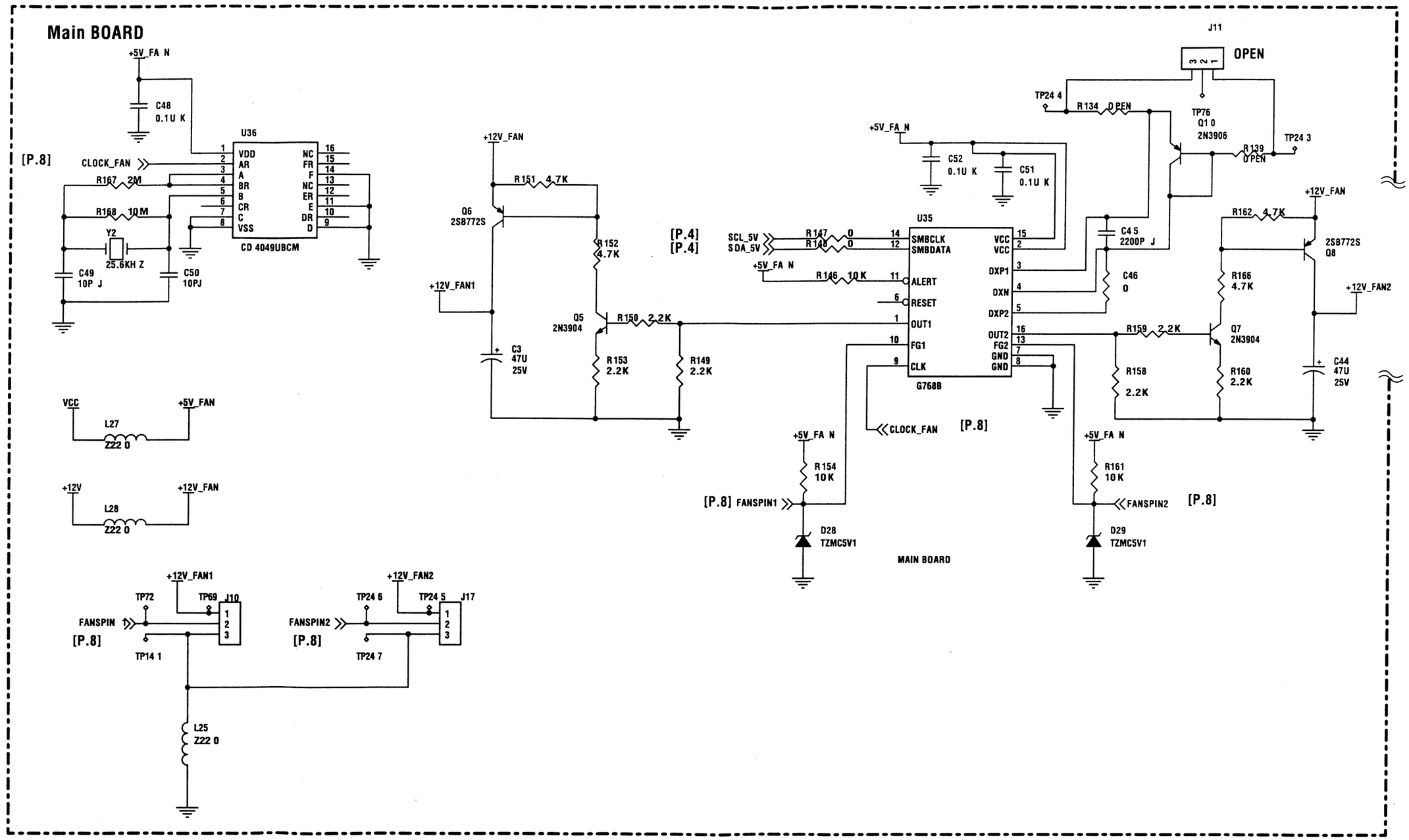
(MAIN BOARD 7/11)



MAIN BOARD

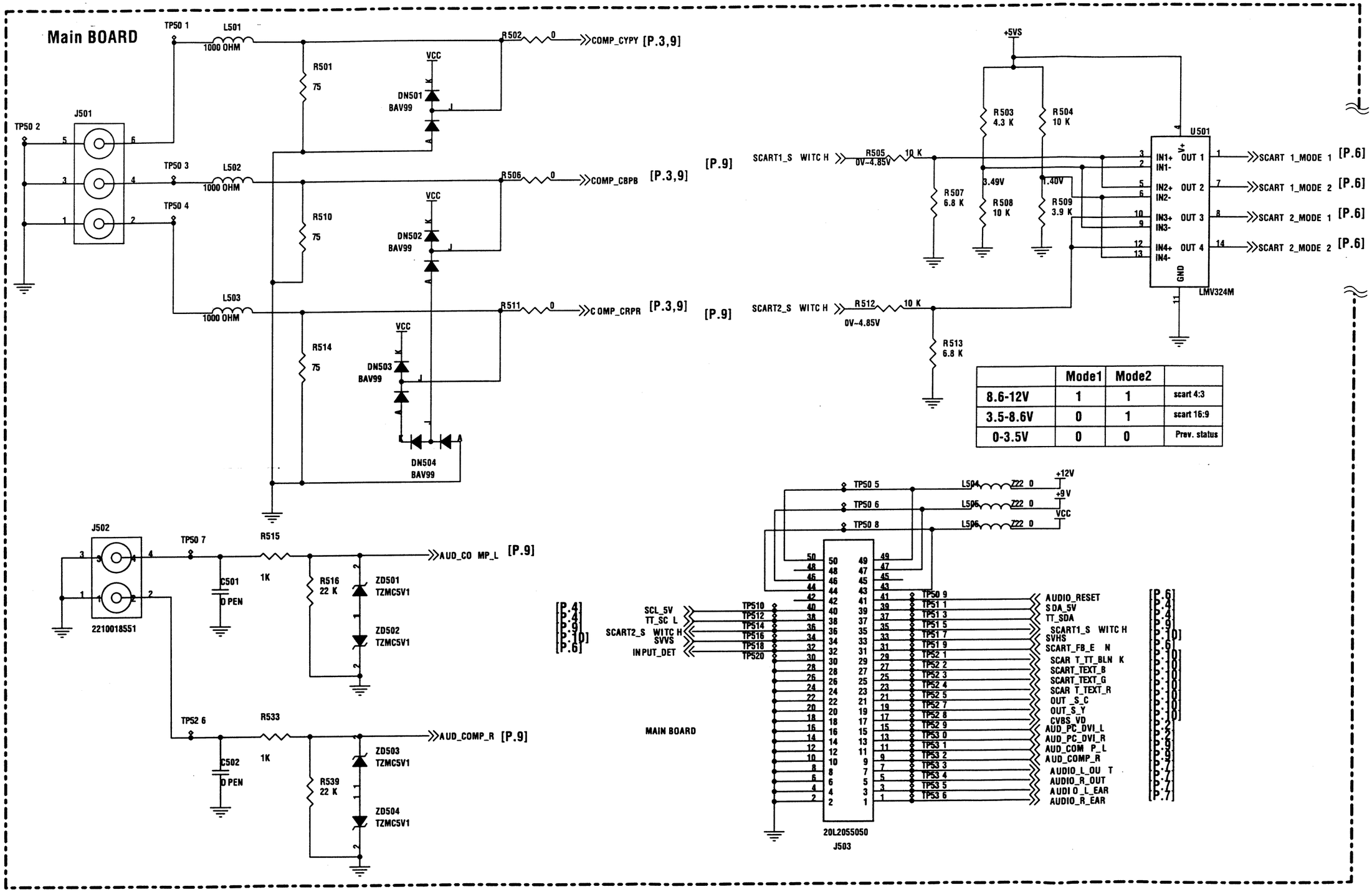
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

(MAIN BOARD 8/11)



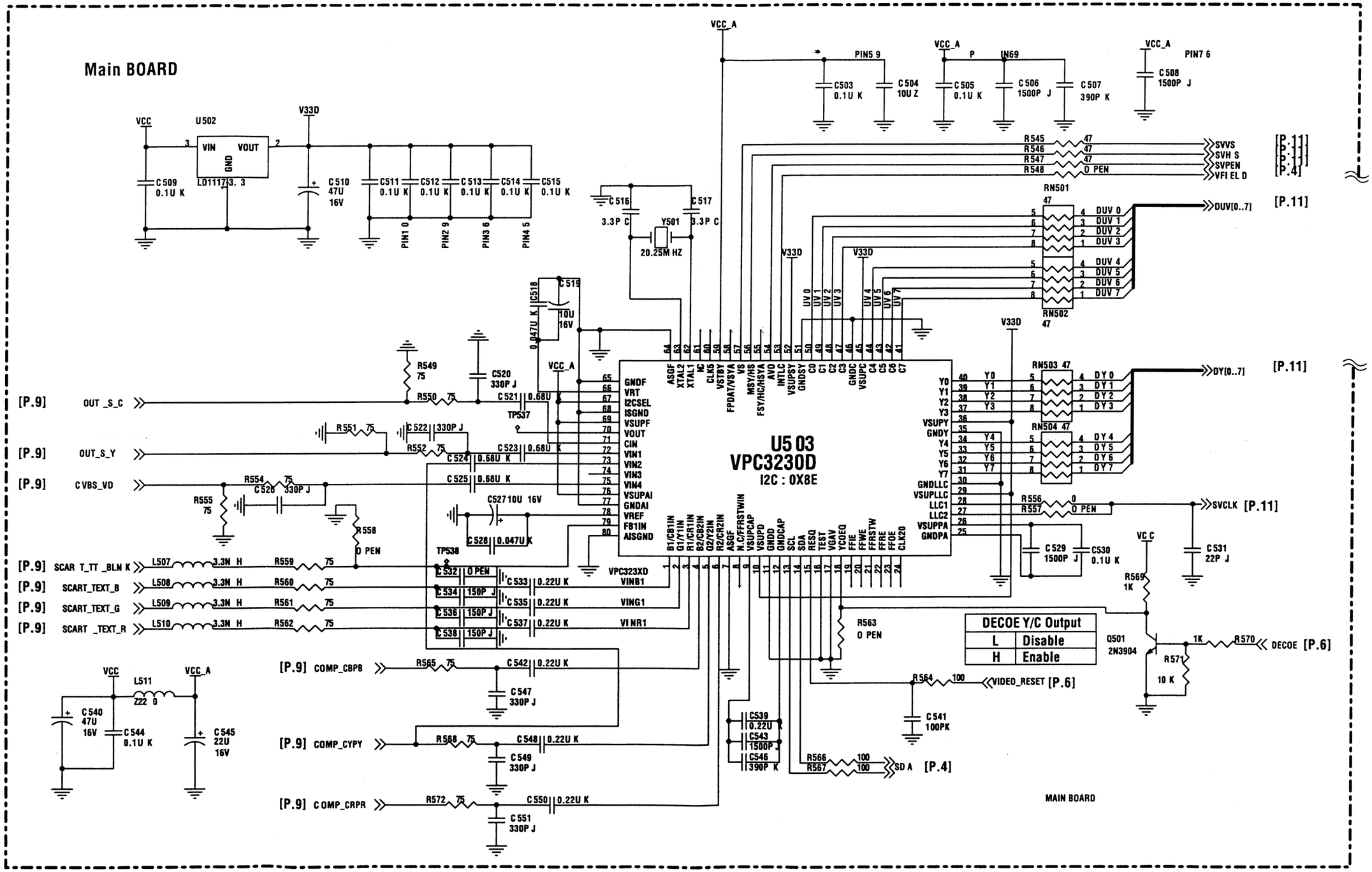
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

(MAIN BOARD 9/11)



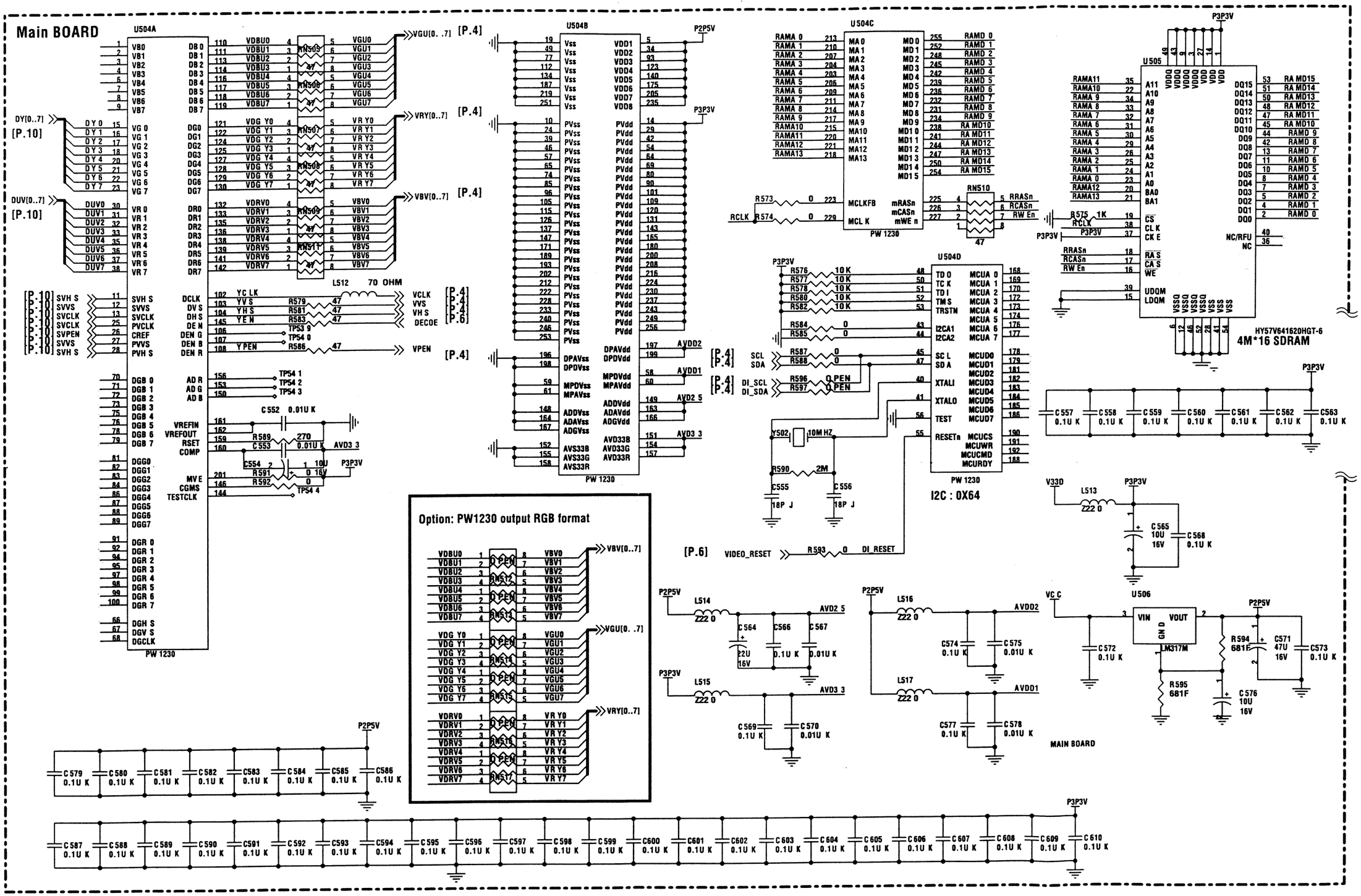
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

(MAIN BOARD 10/11)

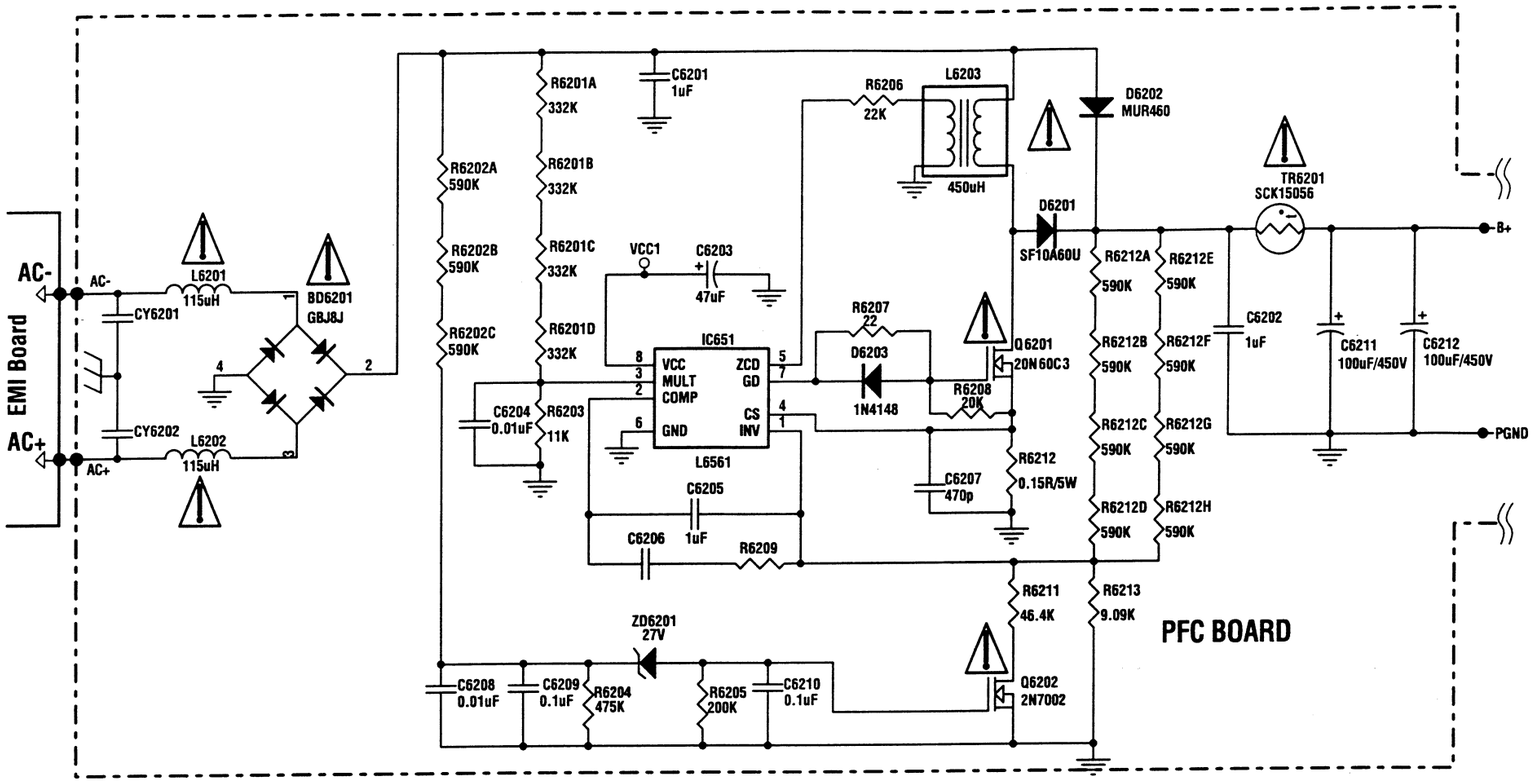


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

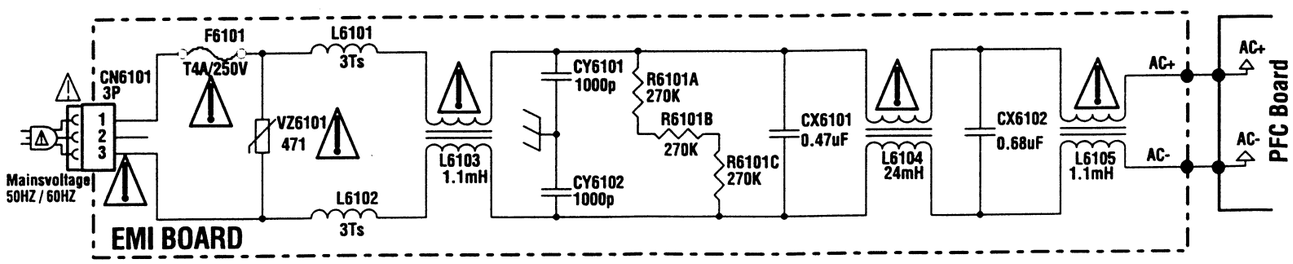
(MAIN BOARD 11/11)



PFC BOARD



EMI BOARD



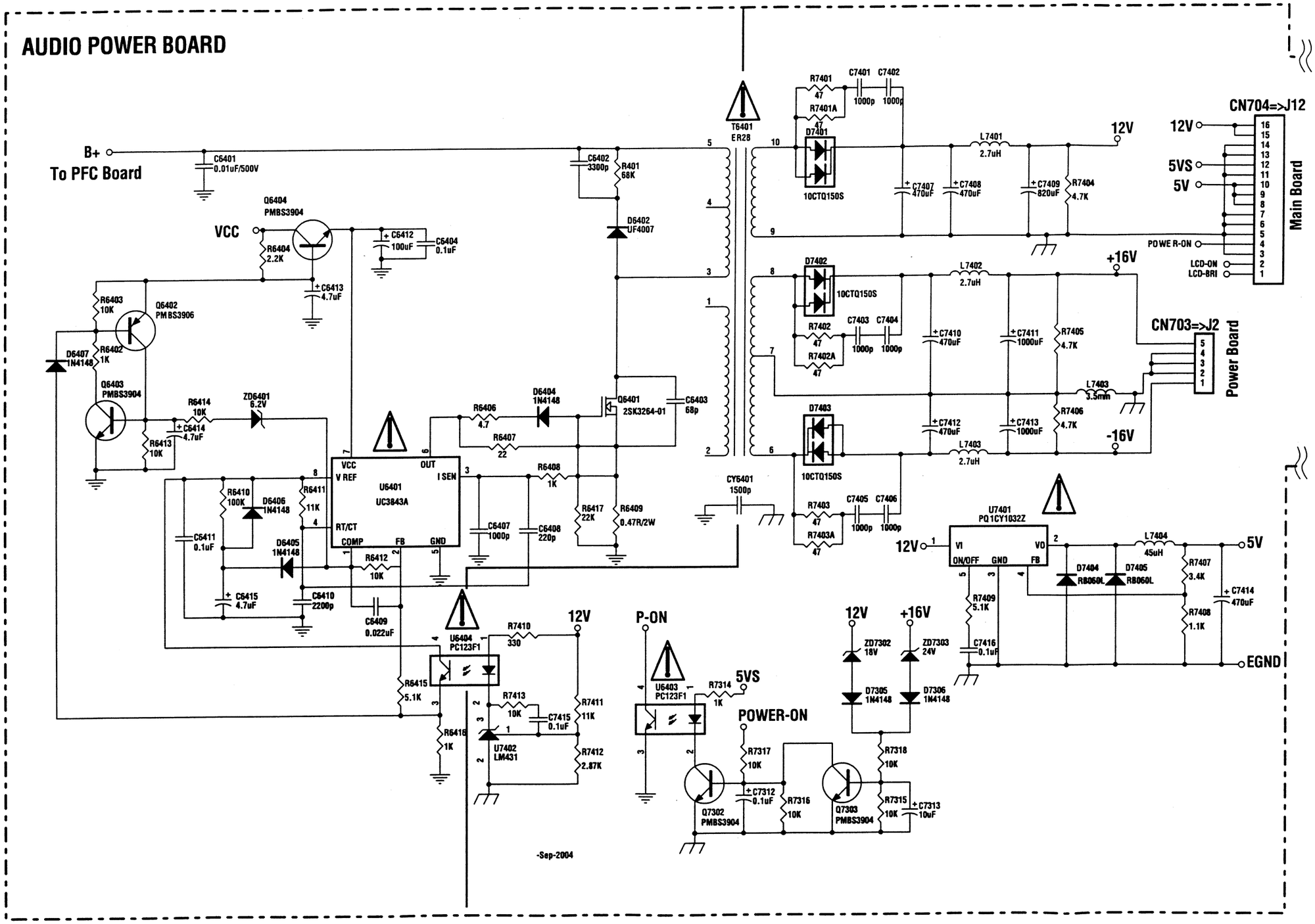
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

INVERTER POWER BOARD

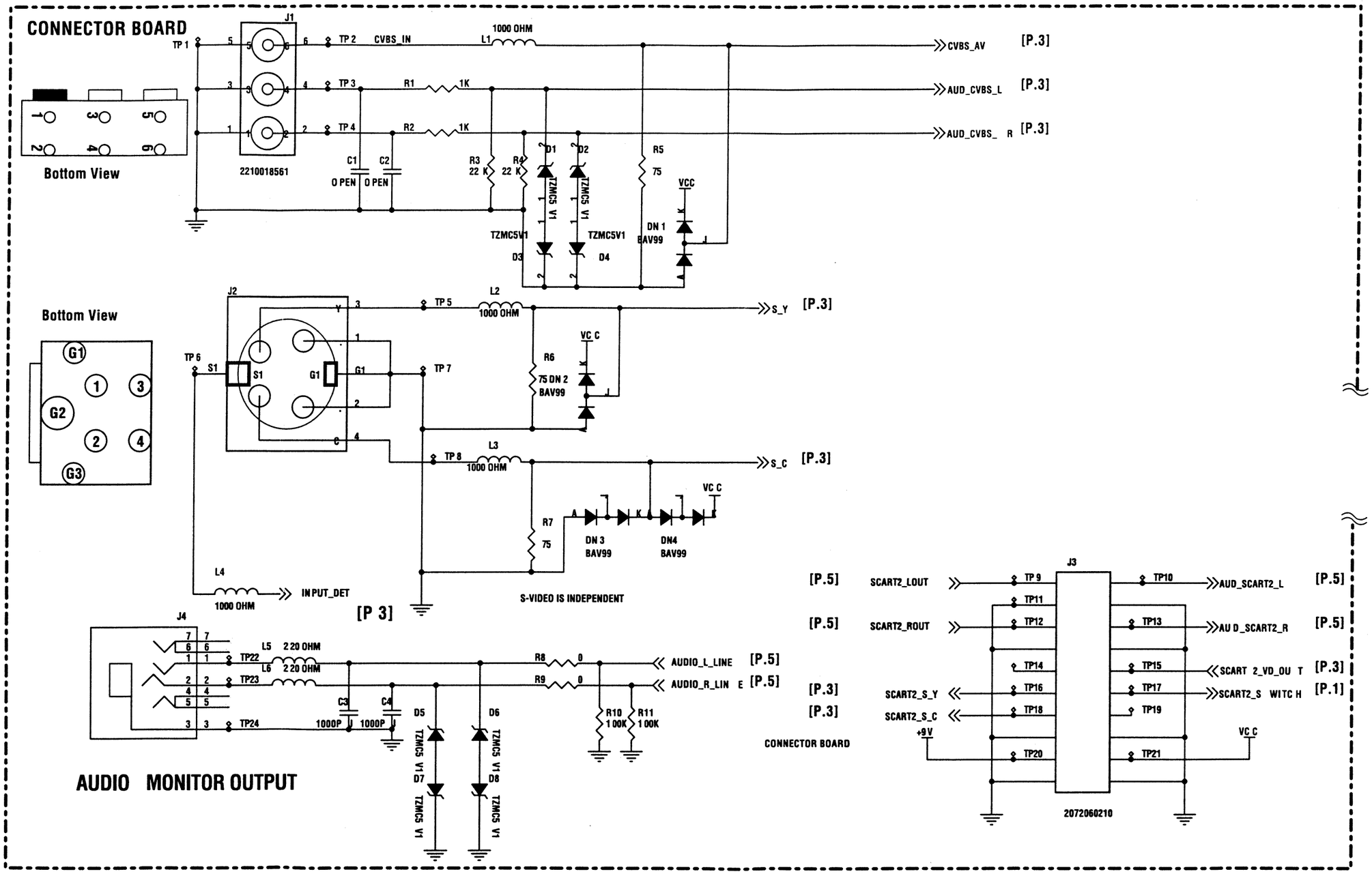
B+
To PFC Board
Audio Power Board
C6301 0.01uF/500V
R6301 68K/2W
R6303 392K
R6304 392K
R6305 392K
R6306 392K
R6307 392K
R6308 392K
R6309 100K
C6302 3300p
R6302 68K
D6302 ES1D
D6301 ES1D
Q6302 MPSA44
Q6303 PMBS3904
D6303 1N4148
C6312 4.7uF
VC
C6310 47uF
VCC
C6311 150uF
C6315 0.1uF
ZD6301 24V
D6304 1N4148
Q6301 STW11N80
C6303
R6310 10
R6311 20K
R6327 1K
R6312 0.27R/2W
U6301 UC3843A
VCC
V REF
I SEN
OUT
RT/CT
COM
GND
R6315 11K
R6314 100K
D6307 1N4148
R6316 1.1K
Q6304
R6317
R6325
D6308 1N4148
R6313 10K
C6308 2200p
C6313 4.7uF
C6307 0.1uF
C6306 1500p
C6305 100p
C6304 1000p
D6310
P-ON
Audio Power Board
U6302 PC123F1
R7312 330
V-INVERTER
ZD7301 30V
VF
R7311 10
C7311 0.1uF
Q7301 PMBS3904
G
R6318 5.1K
R6326 1.1K
D6309 1N4148
VCC
Q6307 PMBS3904
VC
VCC1
Q6305 PMBS3906
R6322 47K
R6319 1.2K
R6323 47K
C6314 100uF
R6320 7.5K
U6303 LM431
R6321 1.5K
D6311 1N4148
P-ON
CY6301 1500p
T6301 PQ3220
R7302 47
R7301 47
C7301 C7302 1000p 1000p
D7301 FMX-22SL
D7302 FMX-22SL
D7303 FMX-22SL
V-INVERTER
C7303A 470uF
C7303B 470uF
C7303C 470uF
C7303D 470uF
C7304 0.1uF
R7313 15mohm
G
R7303 22.1K
R7304 1K
VF
C7307
R7307 75
C7306 1000p
C7305 1.2K
R7306 5.1K
C7308 0.1uF
C7309 0.1uF
U7301 TSM101A
VCC VRIN OUT CRIN VREF CSEN CRREF GND
R7308 10K
R7309 1.2K
C7310 0.1uF
R7310 100
G
CN701
CN702
LCD-ON
LCD-BRI
EGND
V-INVERTER
U7302 PQ1CY1032Z
VI ON/OFF GND VO FB
L7301 150uH
D7304A RB060L
D7304B RB060L
R7321 3.3K
R7322 1.1K
C7305 470uF
R7320 5.1K
C7320 0.1uF
5VS
EGND
7-Sep-2004

POWER SUPPLY INTERFACE - INTERFACE ALIMENTATION - NETZTEIL - ALIMENTAZIONE - INTERFAZ ALIMENTACIÓN

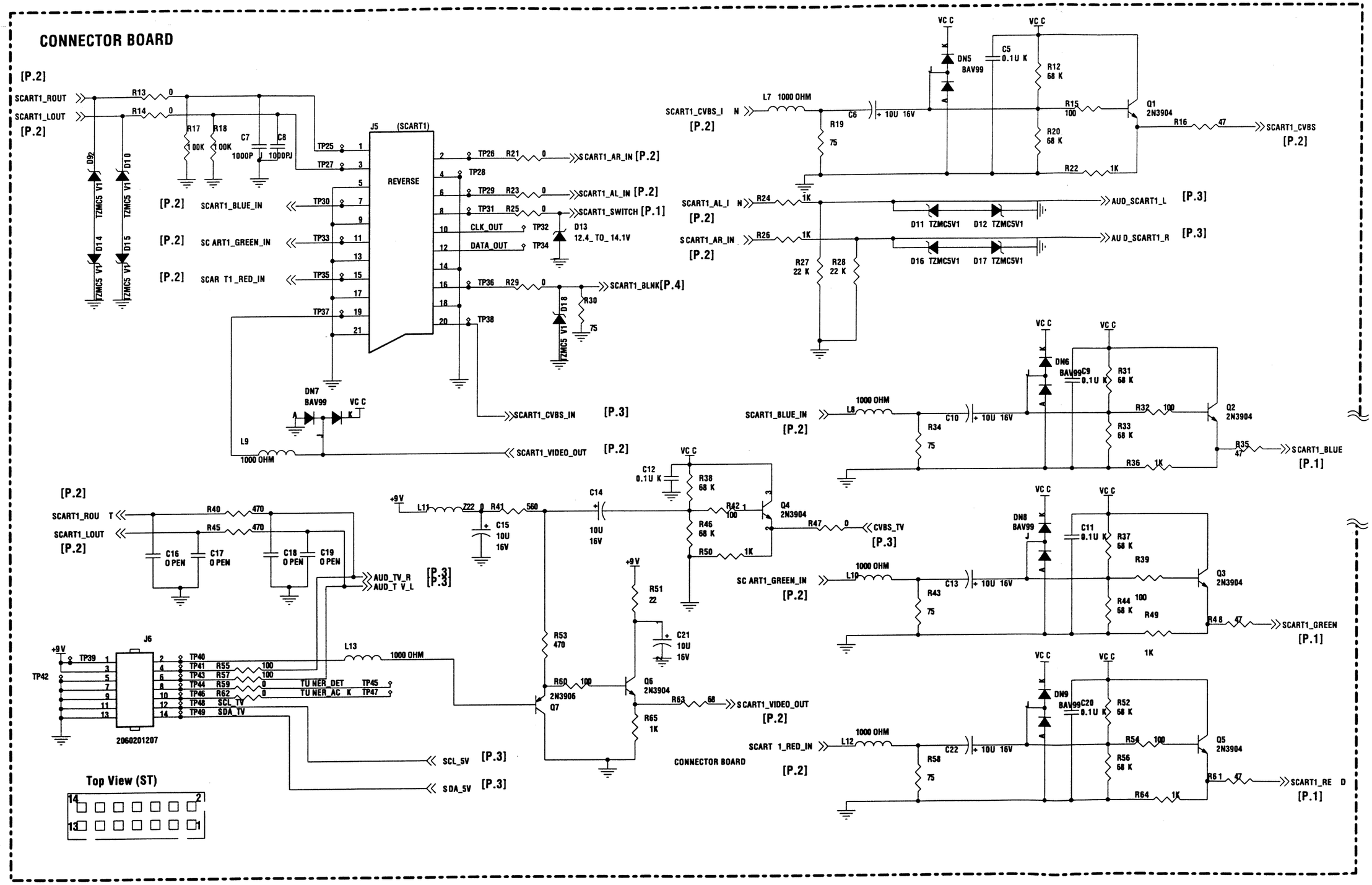
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



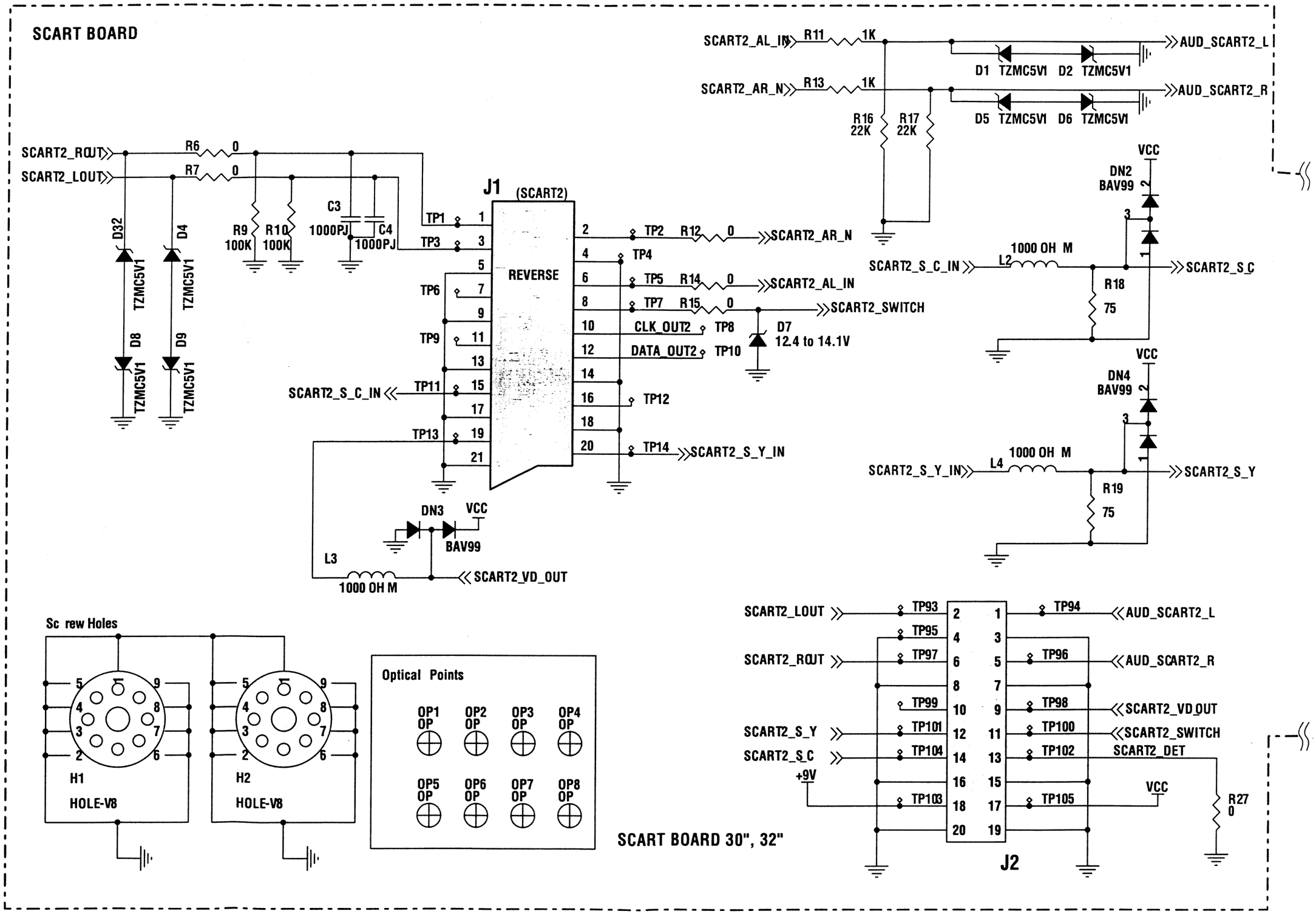
(CONNECTOR BOARD 1/5)



(CONNECTOR BOARD 2/5)

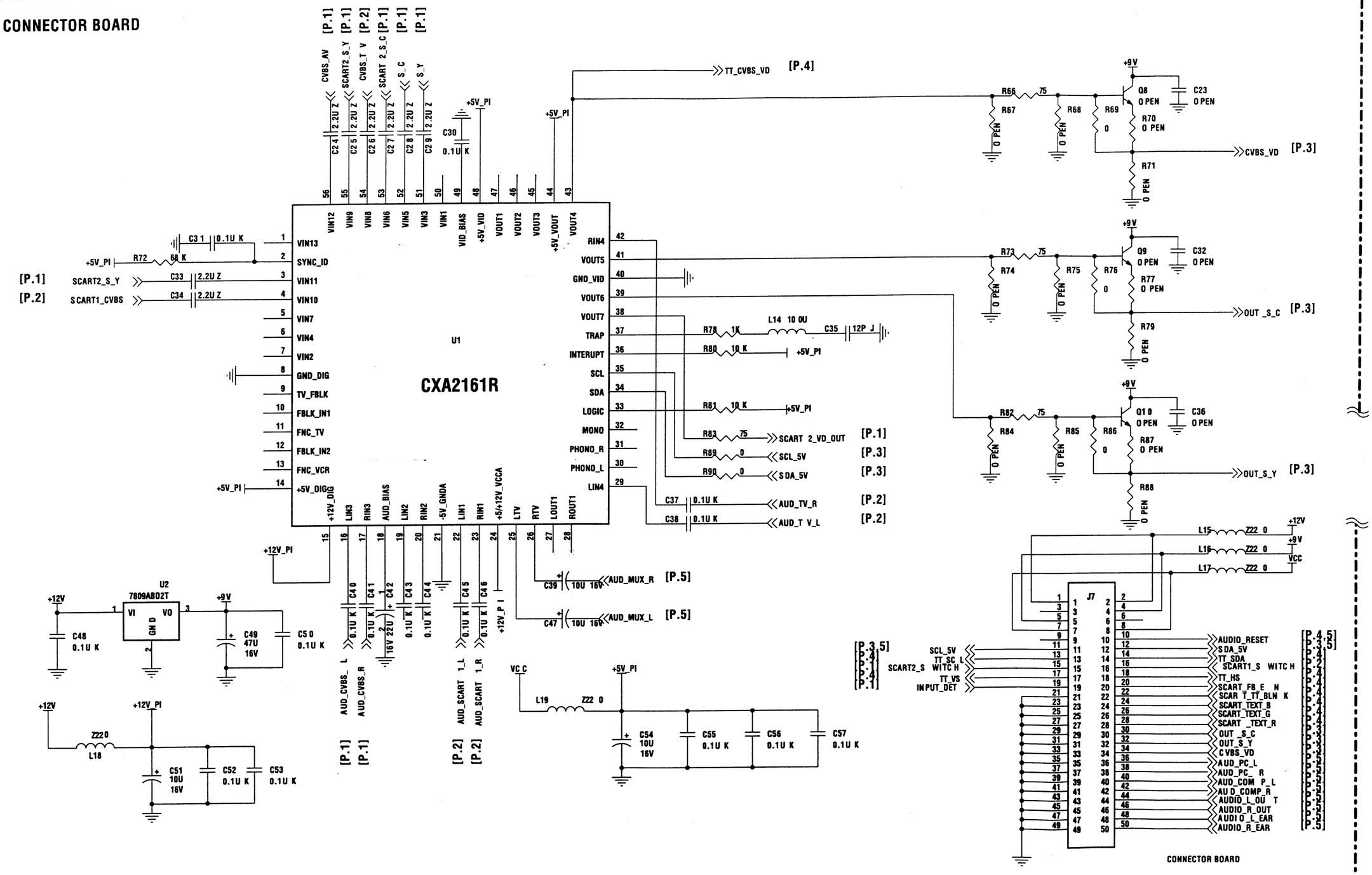


(CONNECTOR BOARD)



(CONNECTOR BOARD 3/5)

CONNECTOR BOARD



(CONNECTOR BOARD 4/5)

CONNECTOR BOARD

(Bypass Group Delay Circuit for TMM tuner)

U3 AT 24 C02 — NC, NC, NC, GND, VC C, WP, SC L, SD A — EE_SCL, EE_SDA

U4 SDA555x FL — I2C : 0X60

ADG77 9truthtable	
IN	Dout
0	S1
1	S2

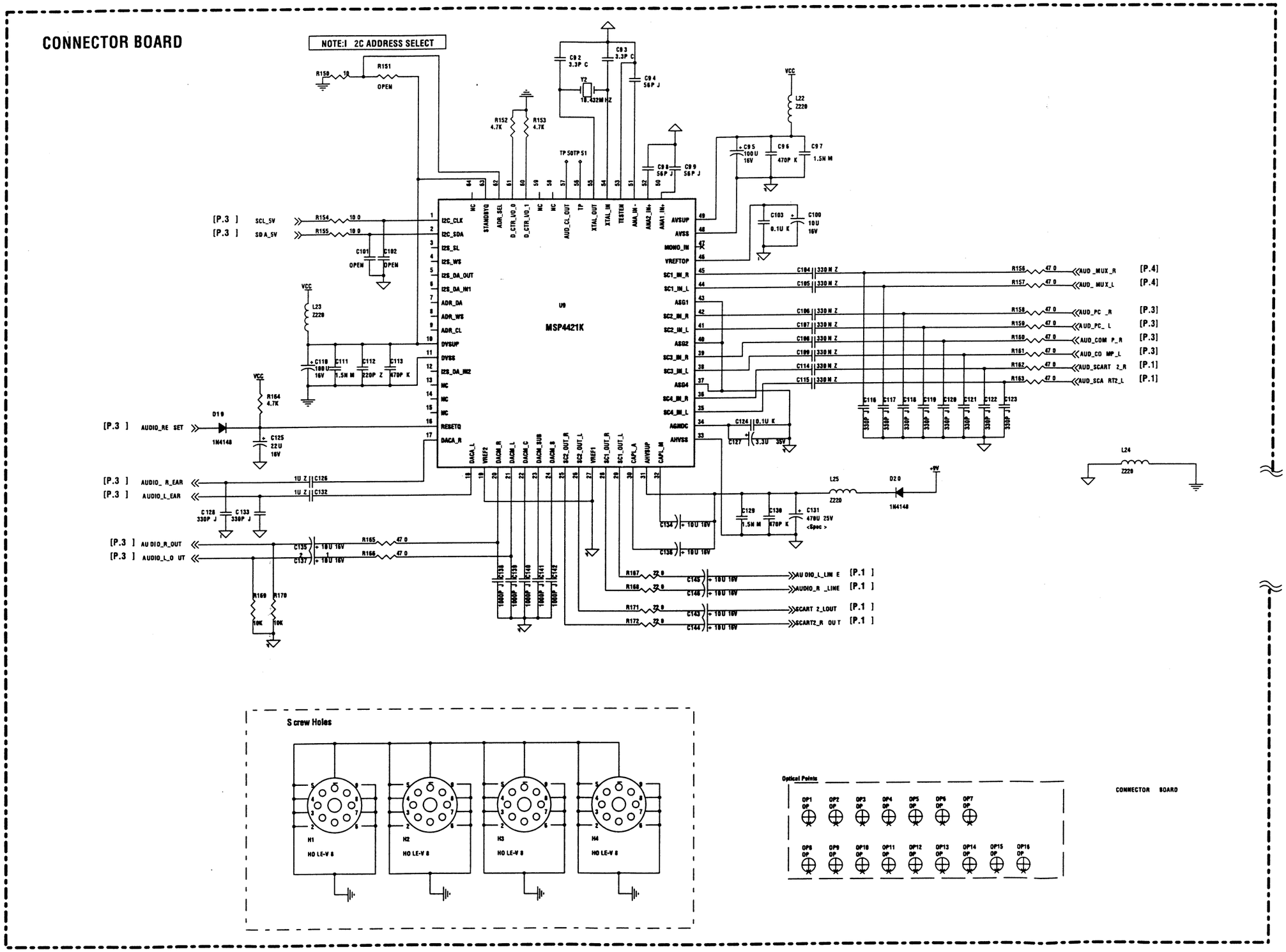
MM1234 truth table	
SW	RGBout
0	RGB A in
1	RGB B in

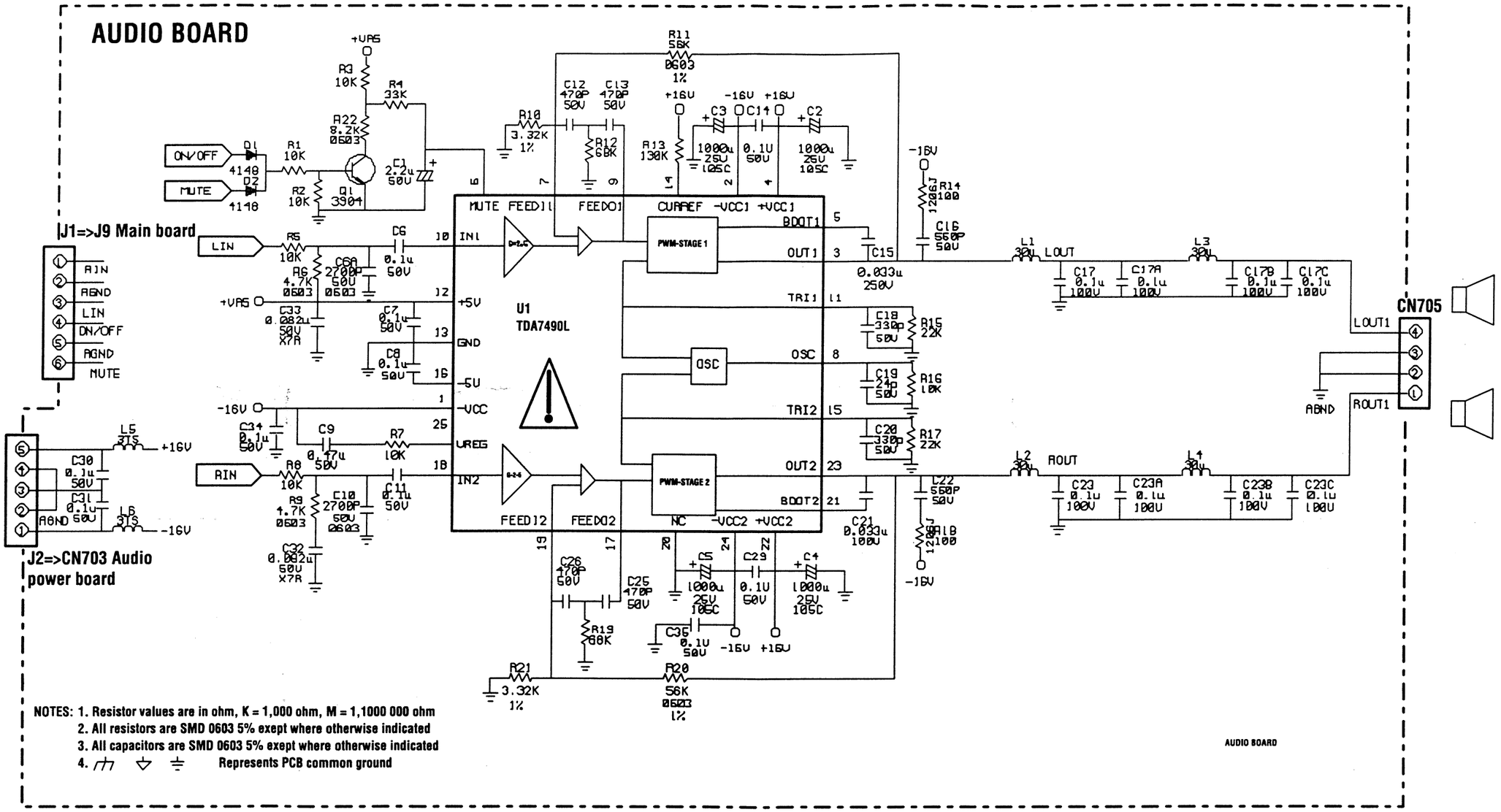
U5 LD1117 3.3 — U7 LM317M

CONNECTOR BOARD

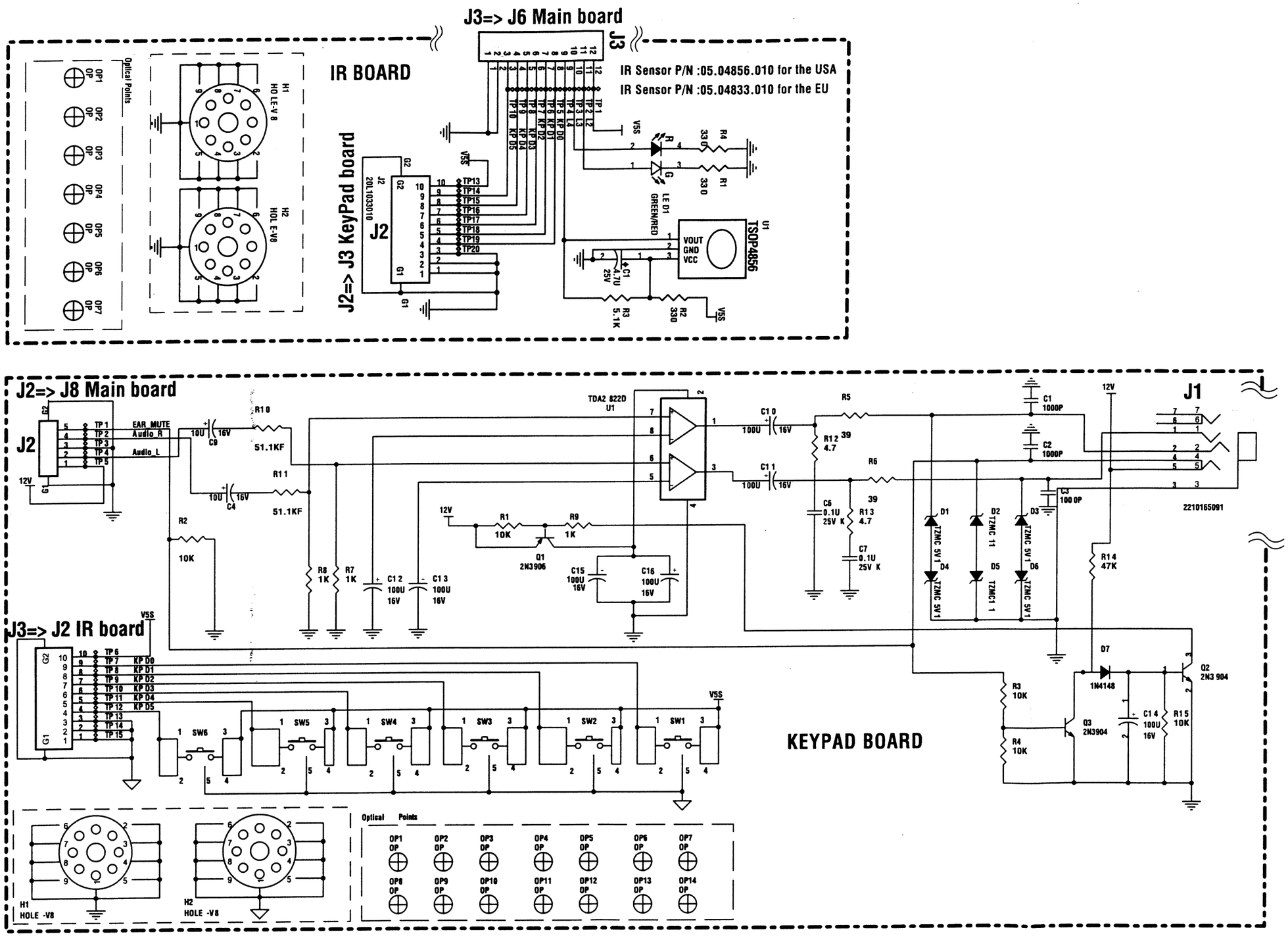
VIDEO SIGNAL PROCESSING - TRAITEMENT VIDEO - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

(CONNECTOR BOARD 5/5)



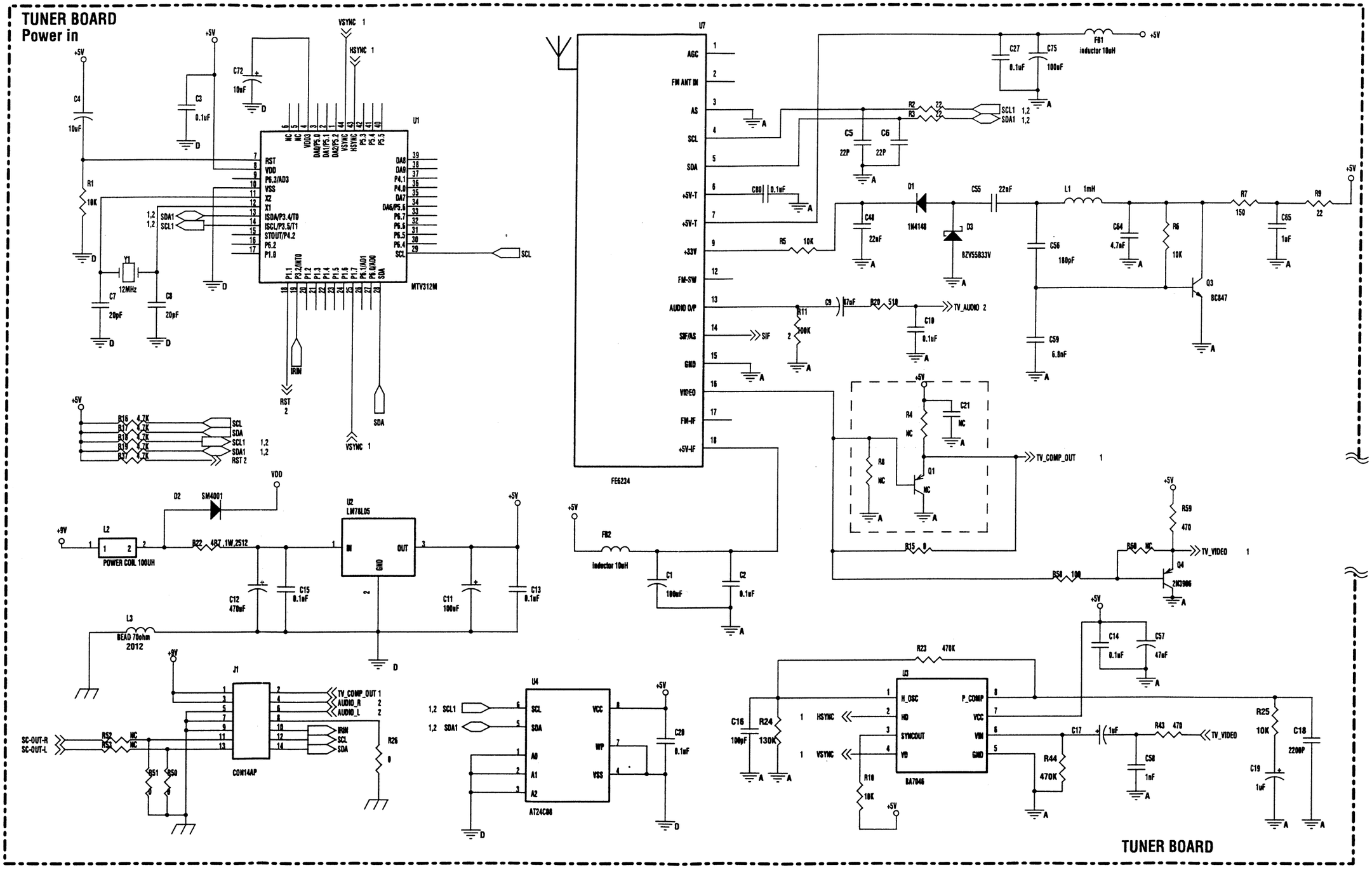

AUDIO BOARD
J1=>J9 Main board
AIN
AGND
LIN
ON/OFF
AGND
MUTE
J2=>CN703 Audio power board
AGND
+16V
-16V
+VAS
ON/OFF
MUTE
LIN
RIN
U1
TDA7490L
MUTE
FEED1I
FEED01
CUREF
-VCC1
+VCC1
INI
+5V
GND
-5V
-VCC
VREG
IN2
FEED12
FEED02
NC
-VCC2
+VCC2
BOOT1
OUT1
TRI1
OSC
TRI2
OUT2
BOOT2
PWM-STAGE 1
PWM-STAGE 2
LOUT
ROUT
AGND
CN705
LOUT1
ROUT1
NOTES: 1. Resistor values are in ohm, K = 1,000 ohm, M = 1,1000 000 ohm
2. All resistors are SMD 0603 5% exept where otherwise indicated
3. All capacitors are SMD 0603 5% exept where otherwise indicated
4. Represents PCB common ground
AUDIO BOARD

KEYBOARD SCHEMATIC DIAGRAM - SCHEMA DES CIRCUITS COMMANDES - SCHALTBILD BEDIENTEIL - SCHEMA DEI CIRCUITI TASTIERA - ESQUEMA DE LOS CIRCUITOS MANDOS



SCART INTERFACE / TUNER SCHEMATIC DIAGRAM - SCHEMA DE L'INTERFACE PERITELEVISION / TUNER - SCHALTBILD EUROPA NORMBUCHSE / TUNER SCHEMA DELLA PRESA PERITEL / SINTONIZZATORE - ESQUEMA INTERFAZ EUROTOMA / SINTONIZADOR

(AV TUNER BOARD 1/2)



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SCART INTERFACE / TUNER SCHEMATIC DIAGRAM - SCHEMA DE L'INTERFACE PERITELEVISION / TUNER - SCHALTBILD EUROPA NORMBUCHSE / TUNER
SCHEMA DELLA PRESA PERITEL / SINTONIZZATORE - ESQUEMA INTERFAZ EUROTOMA / SINTONIZADOR

(AV TUNER BOARD 1/7)

TV TUNER BOARD--(PAL)

Sound Processor